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Review of the Meziadin River Fishway and Upper Nass Biological Programs, 1989

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Prince Rupert, British Columbia
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Canadian Data Report of
Fisheries and Aquatic Sciences No. 776

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Abstract

Southgate, D.R. 1990. Review of the Meziadin River Fishway and Upper Nass Biological Programs, 1989. Can. Data Rep. Fish. Aquat. Sci. 776: iii + 64 p.

This data report contains daily fishway counts for all salmon species and steelhead trout (Oncorphynchus sp). Age, sex, and length information for sockeye salmon at the Meziadin Fishway, Bowser, Damdochax, and Fred-Wright Lake's are also presented.In 1989, 45,288 large sockeye, 795 jack sockeye, 785 large chinook, 40 jack chinook, 1910 coho, 18 pink, and 16 steelhead were enumerated through the fishway. This is the lowest adult sockeye count ever recorded in the Meziadin system. Estimates of sockeye escapment for the Upper Nass system's are also presented.

RÉSUMÉ

Southgate, D.R. 1990. Review of the Meziadin River Fishway and Upper Nass Biological Programs, 1989. Can. Data Rep. Fish. Aquat. Sci. 776: iii + 64 p.

Le présent rapport de données porte sur les dénombrements quotidiens de toutes les espèces de saumon et de truites arc-en-ciel anadromes (Oncorhynchus sp.) utilisant des échelles à poissons. Il contient aussi des donnees sur i'âge, le sexe et la longueur des saumons prélevés aux échelles à poissons des lacs Meziadin, Bowser, Damdochax et Fred-Wright. En 1989, on a dénombré 45 288 gros saumons rouges, 795 jeunes saumons rouges mâles précoces, 785 gros saumons quinnats, 40 jeunes saumons quinnats mâles précoces, 1 910 saumons cohos, 18 saumons roses et 16 truites arc-en-ciel anadromes. Le nombre de saumons rouges adultes dénombrés est le plus faible enregistré jusqu à maintenant dans le système de la Meziadin. On présente aussi des estimations de l'échappé de saumon rouge dans le bassin superieur de la Nass.

Introduction

The Meziadin River flows into the Nass River approximately 180 km from where the Nass River flows into Portland Inlet in Statistical Area 3 (see Figure 1). The fishway is situated 1 km from the confluence of the Meziadin and Nass Rivers. The fishway was constructed to bypass a series of falls (Victoria Falls) and allow sockeye salmon greater access to spawning grounds on Meziadin Lake.Prior to the completion of the fishway it was thought that the Meziadin system produced less than 40% of the total Nass sockeye stock. It is now estimated that Meziadin produces 70 to 80% of the sockeye stock.In 1989 only 45,282 large sockeye were enumerated into the Meziadin system, which represents less than 50% of a total Nass escapment of about 113,000 sockeye.

Methods

The Meziadin fishway was designed to operate either unmanned or to accommodate enumeration facilities and personel. Since construction of the fishway was completed in 1964, the sockeye return has been enumerated annually. The counting structure or trap, is installed as early in July as possible with the water level of Meziadin River usually being the determining factor. In 1989 the trap was installed on July 6 with daily counts continuing until September 8.The enumeration and sampling was carried out by two summer students. A DFO guardian was also present during the summer to address habitat and enforcement issues due to the heavy influx of logging and tourism in the area. Counting and sampling was conducted throughout the summer using standard methods as described by Southgate et. al. (1988).

During the summer a hand-railing was constructed along the entire length of the fishway(790 feet). It was built as part of the Health and Safety program implemented in 1988. In 1990 another hand-railing will be constructed around the trapping facilities. Improvements to the personel accomadation will also be initiated(Upgrading the wiring and plumbing inside the residence).

On August 30th a small hole was discovered underneath one of the counting shutes. Following disucssions with staff and further investigation, it was ascertained that the hole had little impact on the enumeration. Because of the poor counts, the staff was very conscious ofany problem or damage to the trap. It is belived that the hole was discovered shortly after it developed. The hole was caused by the gradual build-up of gravel in the top end of the fishway over the past 5 to 10 years. As a result, the bottom section

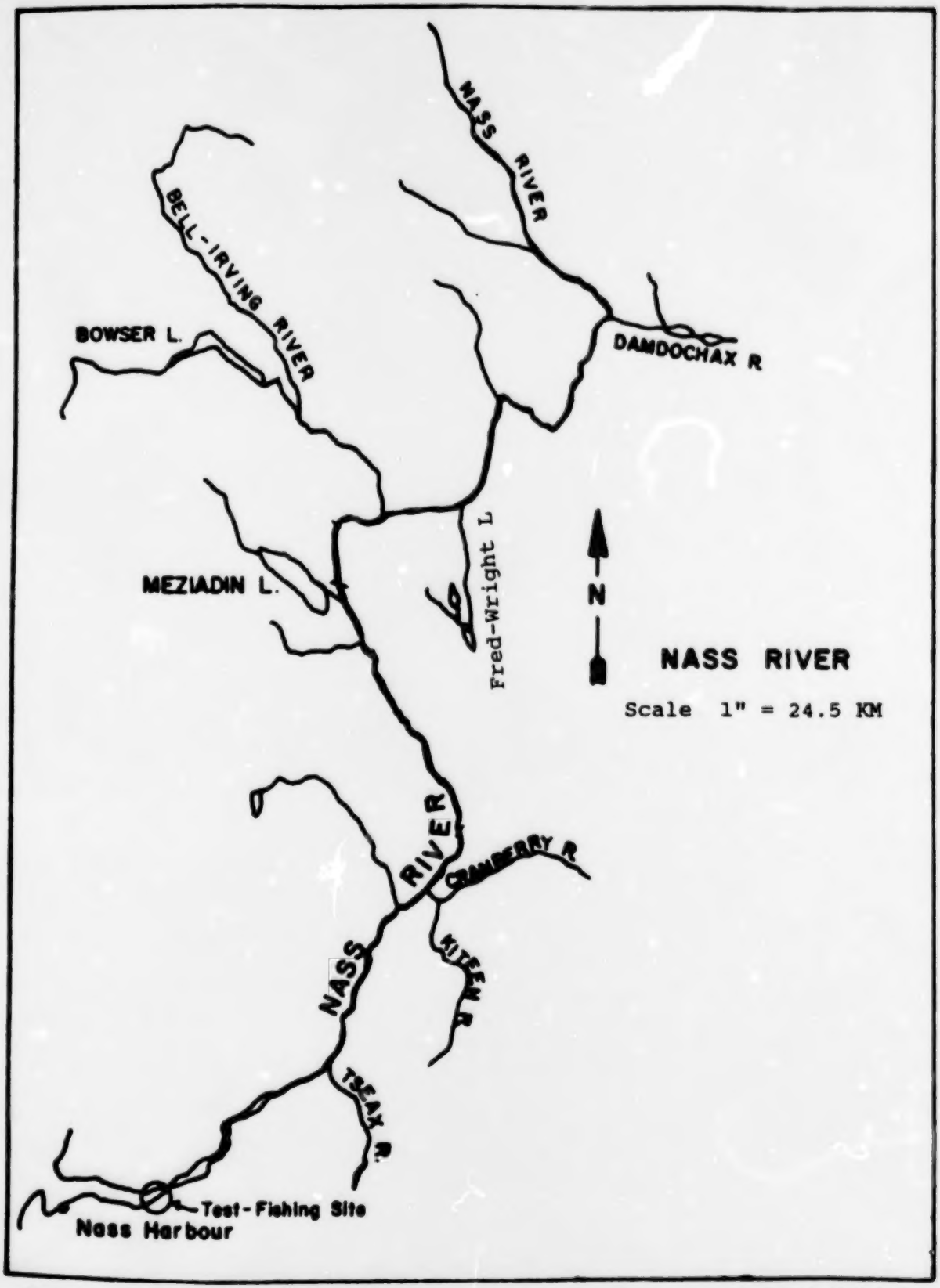


Figure 1. Location of Meziadin, Bowser, Damdochax and Fred-Wright lake's in the Nass River drainage.

of the trap was improperly positioned during the installation, being placed on top of the gravel instead of the concrete pad.During the spring of 1990, DFO personel plan to remove the gravel and install stop logs above the trapping facility to prevent this problem from reocurring in future years.

Upper Nass Sockeye Survey

In conjuction with the Nass test program and the Meziadin Fishway counts, an escapment survey of sockeye in the other Nass sockeye systems is conducted annually. Three lakes are surveyed; Bowser, Damdochax, and Fred-Wright. All the sockeye samples are caught using gillnets similar to those used in the Nass test program. The scaled down nets are hung as follows; hang ratio is 2.5/1, mesh size is 4", 4.5" and 5" using #23 twine. A complete description of the methods is detailed by Todd and Dickson (1970).

Bowser Lake

Bowser Lake is the second largest producer of sockeye in the Nass system. It is located approximately 220 km upstream from the Nass test fisherysite. The lake is drained by the Bowser River which flows into the Bell-Irving and subsequently th Nass River. In 1989 Bowser Lake was sampled on September 8, when DFO personel flew via "Beaver" floatplane. A total sample of 195 sockeye was taken. The escapment estimate is calculated through an analysis of scale characteristics described by Todd and Dickson (1970). In 1989 the sockeye estimate for Bowser Lake was 41,032.

Damdochax Lake

Damdochax Lake is located approximately 255 km upstream from the Nass test fishery and is accessible only by float plane. In 1989 the lake was surveyed on September 7 when 100 sockeye were sampled. The escapment estimate is from visual observations via a float plane. The estimate for 1989 was 5,000 sockeye.

Fred-Wright Lake

Fred-Wright Lake is approximately 230 km from the Nass test fishery site and is accessible by road. There are two major spawning area's, the upper Kwinagese River and Bonnie Creek. In 1989 sampling was conducted on August 29-30 with 75 sockeye sampled from each system. Escapement estimates are through visual counts from both

walking and flying Bonnie Cr. and the Upper Kwinagese River. The aerial survey of Fred-Wright lake was done on September 8. The estimate for Fred-Wright is 15,000 sockeye, 5,000 for the Upper Kwinagese River and 10,000 for Bonnie Creek.

Results

Water level measurements taken at the fishway during 1989 are recorded in Figure 2. In 1989 there were 45,288 large sockeye and 795 jack sockeye counted through the fishway. Daily counts for sockeye are given in Table I and shown in graphed form in Figure 3. Jack sockeye daily counts are graphed in Figure 5 along with jack chinook. This was the lowest enumeration of large sockeye recorded since counts began in 1964. The reason for the low return this year cannot yet be substantiated, however very low water levels in Hanna and Tintina Creek's over the last several years is most certainly a contributing factor. The daily counts for large and jack chinook are given in Table II. There were 785 large chinook counted in 1989 and 40 jack chinook. The ten year average for large chinook (1980-1989) is 786. The daily counts for Coho, Pink and Steelhead are given in Table III and shown in the graphed form in Figure's 6 and 7. The final count of coho in 1989 was 1910, however the counts were still very strong when enumeration was terminated on September 8. The estimated return of coho in 1989 was 3000. The final count of pink salmon and steelhead was 18 and 16 respectively.

The daily biological information (sex,length,age) from the Meziadin Fishway is presented in Table IV. The results of this information is found in Table's IX and X. The biological information obtained from Bowser, Damdochax and Fred-Wright lake's is given in Table's 5, 6, 7 and 8. The results for the upper Nass systems is given in Table's II and XI.

Figure 2. Meziadin Fishway Water Levels

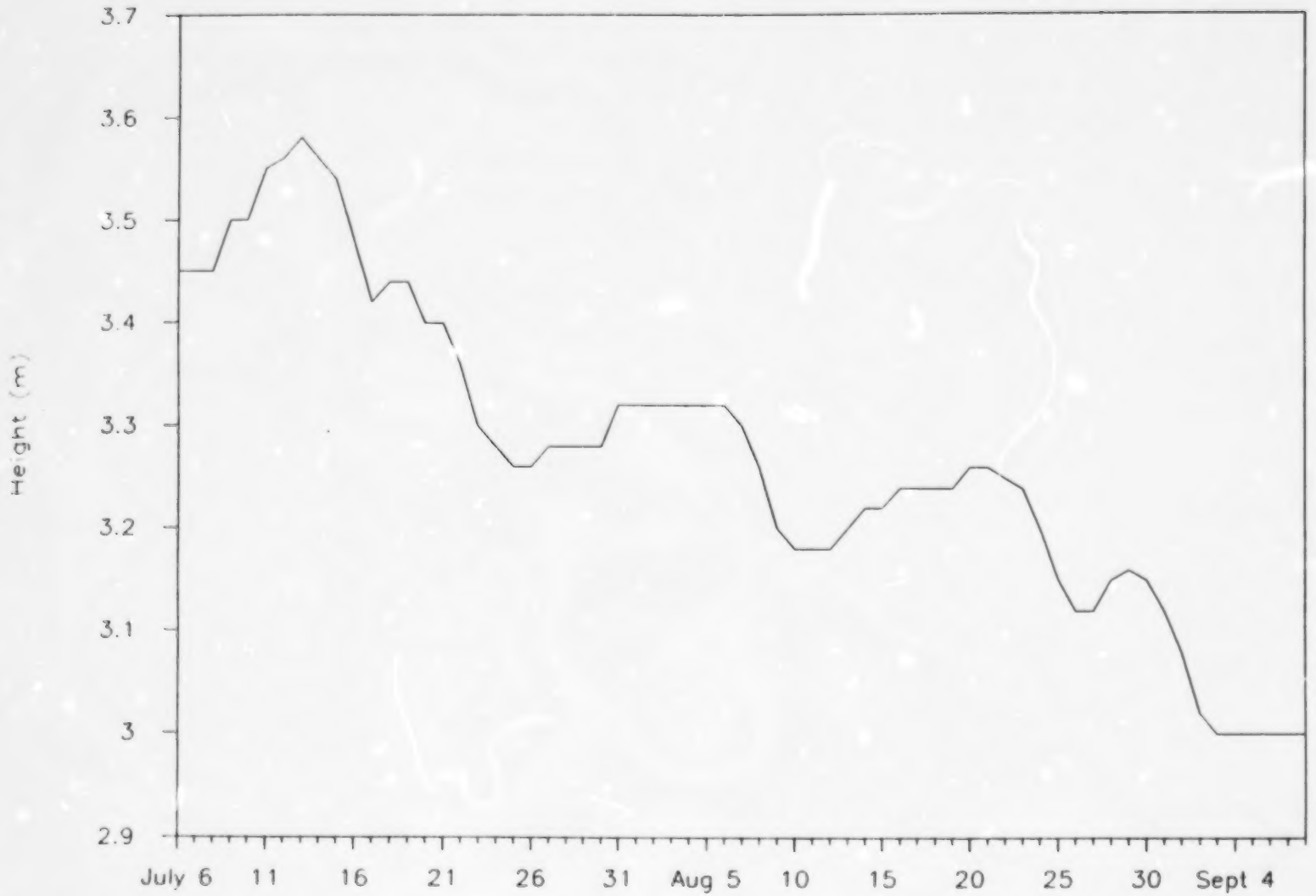


Table I
Daily and cummulative counts of large and jack sockeye, 1989.

DATE		JK. SOCKEYE DAILY	JK. SOCKEYE ACCUM.	LG. SOCKEYE DAILY	LG. SOCKEYE ACCUM.
July	6	0	0	8	8
	7	1	1	342	350
	8	6	7	755	1105
	9	4	11	999	2104
	10	0	11	1215	3319
	11	1	12	446	3765
	12	2	14	1352	5117
	13	1	15	1309	6426
	14	1	16	466	6892
	15	1	17	1299	8191
	16	5	22	5253	13444
	17	2	24	2940	16384
	18	5	29	1032	17416
	19	10	39	1510	18926
	20	10	49	1081	20007
	21	7	56	1064	21071
	22	7	63	1801	22872
	23	4	67	1611	24483
	24	7	74	2687	27170
	25	4	78	625	27795
	26	3	81	799	28594
	27	5	86	634	29228
	28	2	88	304	29532
	29	0	88	29	29561
	30	1	89	194	29755
	31	0	89	86	29841
AUG.	1	0	89	184	30025
	2	0	89	211	30236
	3	1	90	149	30385
	4	1	91	106	30491
	5	1	92	200	30691
	6	2	94	241	30932
	7	1	95	182	31114
	8	0	95	234	31348
	9	8	103	563	31911
	10	4	107	396	32307
	11	3	110	431	32738
	12	3	113	493	33231
	13	7	120	410	33641

Table I
Daily and cummulative counts of large and jack sockeye, 1989.
(continued)

DATE		JK. SOCKEYE DAILY	JK. SOCKEYE ACCUM.	LG. SOCKEYE DAILY	LG. SOCKEYE ACCUM.
AUG.	14	9	129	366	34007
	15	3	132	188	34195
	16	9	141	452	34647
	17	12	153	502	35149
	18	1	154	98	35247
	19	1	155	31	35278
	20	10	165	291	35569
	21	15	180	462	36031
	22	5	185	147	36178
	23	4	189	198	36376
	24	13	202	276	36652
	25	8	210	226	36878
	26	4	214	60	36938
	27	4	218	237	37175
	28	3	221	98	37273
	29	24	245	459	37732
	30	56	301	1462	39194
	31	67	368	877	40071
SEPT.	1	120	488	1427	41498
	2	30	518	464	41962
	3	44	562	715	42677
	4	63	625	802	43479
	5	33	658	406	43885
	6	50	708	471	44356
	7	34	742	430	44786
	8	53	795	502	45288

Table II
Daily and cummulative counts of large and jack chinook.

DATE		JK. CHINOOK DAILY	JK. CHINOOK ACCUM.	LG. CHINOOK DAILY	LG. CHINOOK ACCUM.
July	6	0	0	1	1
	7	0	0	15	16
	8	0	0	12	28
	9	1	1	11	39
	10	1	2	8	47
	11	0	2	2	49
	12	1	3	1	50
	13	0	3	2	52
	14	0	3	2	54
	15	1	4	6	60
	16	1	5	16	76
	17	1	6	22	98
	18	1	7	24	122
	19	4	11	44	166
	20	2	13	30	196
	21	4	17	26	222
	22	3	20	29	251
	23	0	20	21	272
	24	3	23	23	295
	25	1	24	11	306
	26	0	24	15	321
	27	0	24	4	325
	28	2	26	20	345
	29	0	26	11	356
	30	0	26	2	358
	31	0	26	1	359
AUG.	1	0	26	1	360
	2	0	26	4	364
	3	0	26	2	366
	4	0	26	7	373
	5	0	26	20	393
	6	0	26	19	412
	7	1	27	7	419
	8	0	27	13	432
	9	1	28	45	477
	10	2	30	45	522
	11	1	31	17	539
	12	0	31	10	549
	13	1	32	24	573

Table II
Daily and cummulative counts of large and jack chinook.
(continued)

DATE		JK. CHINOOK DAILY	JK. CHINOOK ACCUM.	LG. CHINOOK DAILY	LG. CHINOOK ACCUM.
AUG.	14	0	32	35	608
	15	1	33	0	608
	16	0	33	9	617
	17	0	33	19	636
	18	0	33	12	648
	19	0	33	1	649
	20	2	35	10	659
	21	2	37	10	669
	22	0	37	0	669
	23	0	37	4	673
	24	1	38	7	680
	25	1	39	9	689
	26	0	39	2	691
	27	1	40	10	701
	28	0	40	2	703
	29	0	40	7	710
	30	0	40	20	730
	31	0	40	6	736
SEPT.	1	0	40	8	744
	2	0	40	3	747
	3	0	40	3	750
	4	0	40	2	752
	5	0	40	1	753
	6	0	40	3	756
	7	0	40	2	758
	8	0	40	27	785

Table III
Daily and cummulative pink, coho, and steelhead counts.

DATE		Pink DAILY	Pink ACCUM.	Coho DAILY	Coho ACCUM.	Steelhead Daily	Steelhead Accum.
Aug.	10	0	0	1	1	0	0
	11	0	0	2	3	0	0
	12	0	0	0	3	0	0
	13	0	0	0	3	0	0
	14	0	0	1	4	0	0
	15	0	0	4	8	0	0
	16	0	0	1	9	0	0
	17	0	0	2	11	0	0
	18	0	0	0	11	0	0
	19	0	0	0	11	0	0
	20	0	0	8	19	0	0
	21	0	0	12	31	0	0
	22	0	0	5	36	0	0
	23	0	0	11	47	0	0
	24	0	0	21	68	1	1
	25	0	0	26	94	0	1
	26	0	0	11	105	0	1
	27	0	0	36	141	0	1
	28	0	0	20	161	0	1
	29	0	0	58	219	0	1
	30	0	0	176	395	5	6
	31	0	0	120	515	5	11
SEPT.	1	9	9	298	813	2	13
	2	2	11	116	929	0	13
	3	1	12	140	1069	1	14
	4	1	13	208	1277	1	15
	5	3	16	92	1369	0	15
	6	0	16	166	1535	0	15
	7	1	17	190	1725	0	15
	8	1	18	185	1910	1	16

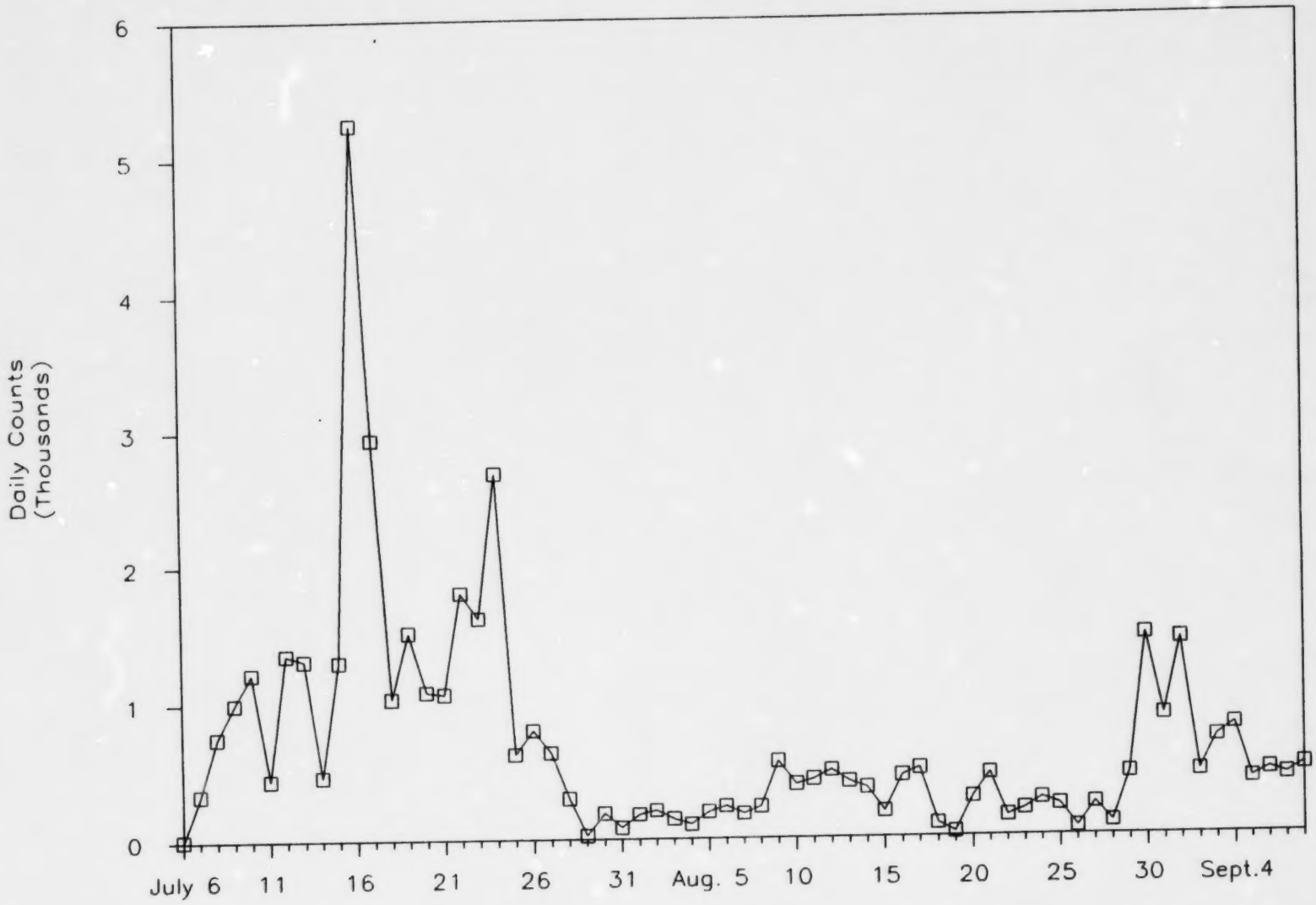


Figure 3. Daily Meziadin Fishway counts of Large Sockeye, 1989.

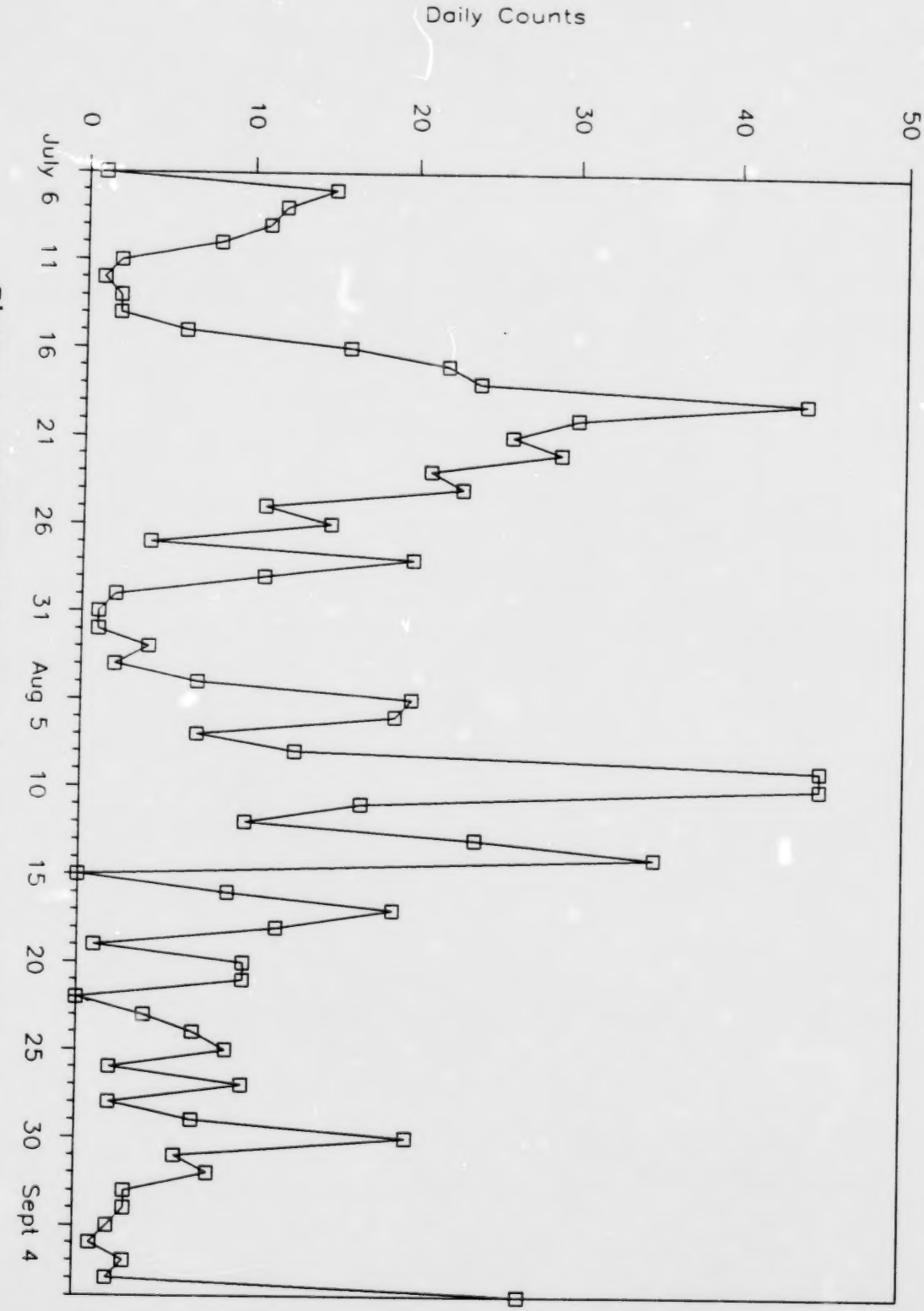
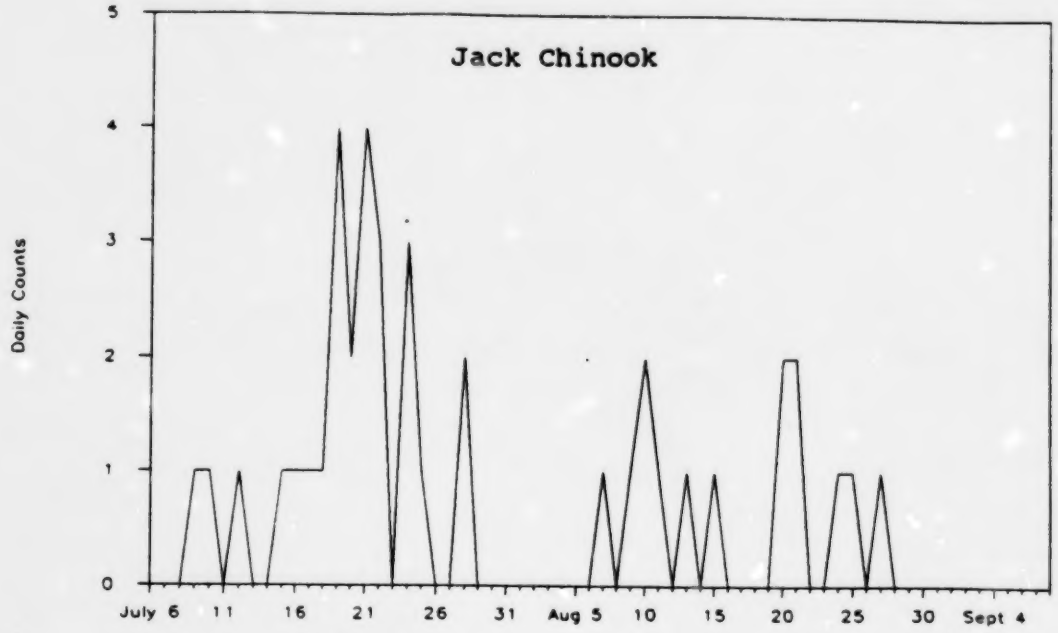


Figure 4. Daily Meziadin Fishway counts of Large Chinook, 1989.



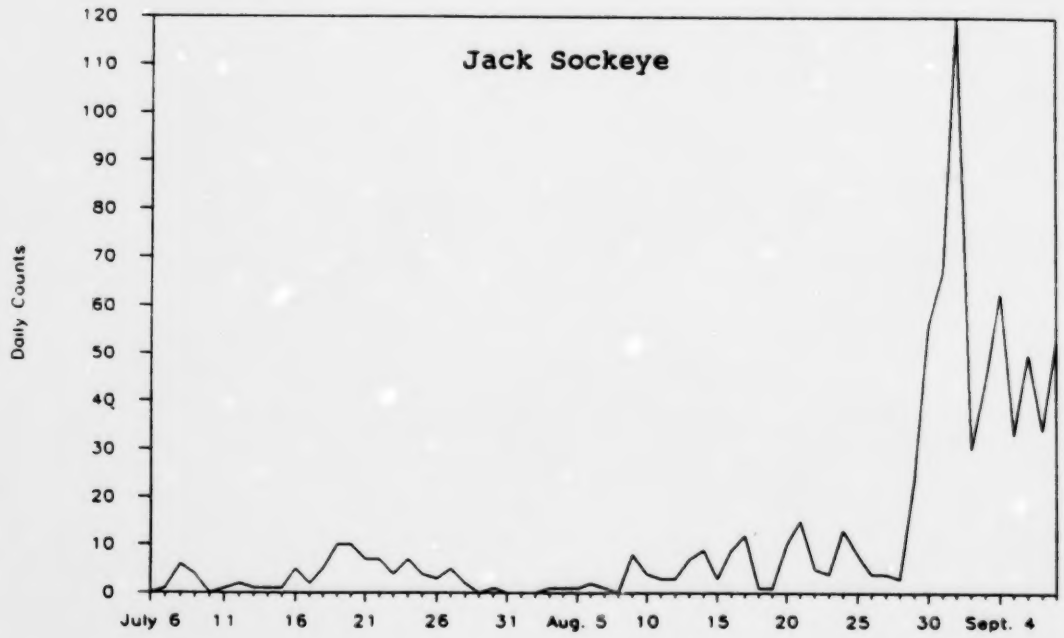


Figure 5. Daily Meziadin Fishway counts of Jack Chinook and Jack Sockeye, 1989.

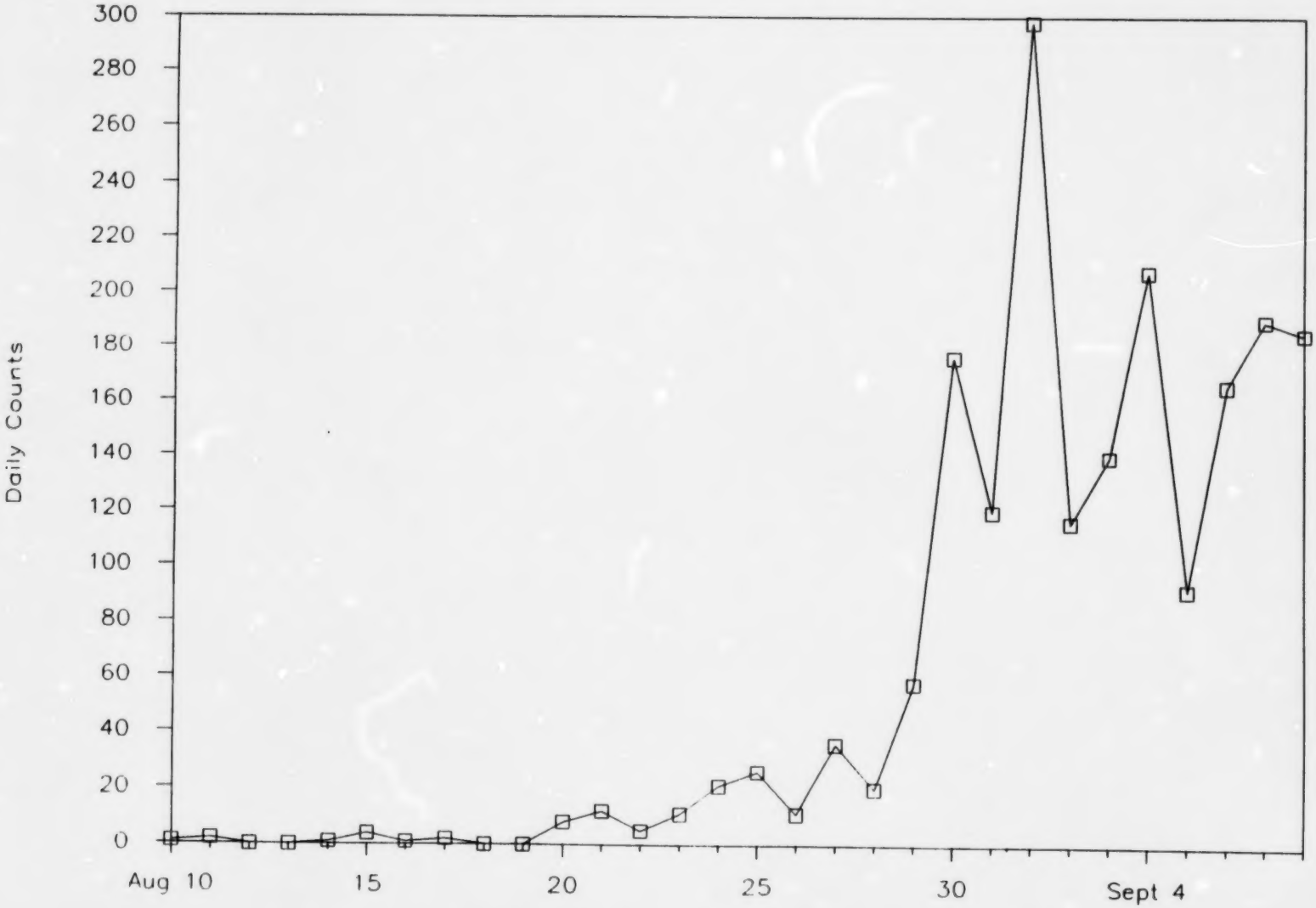
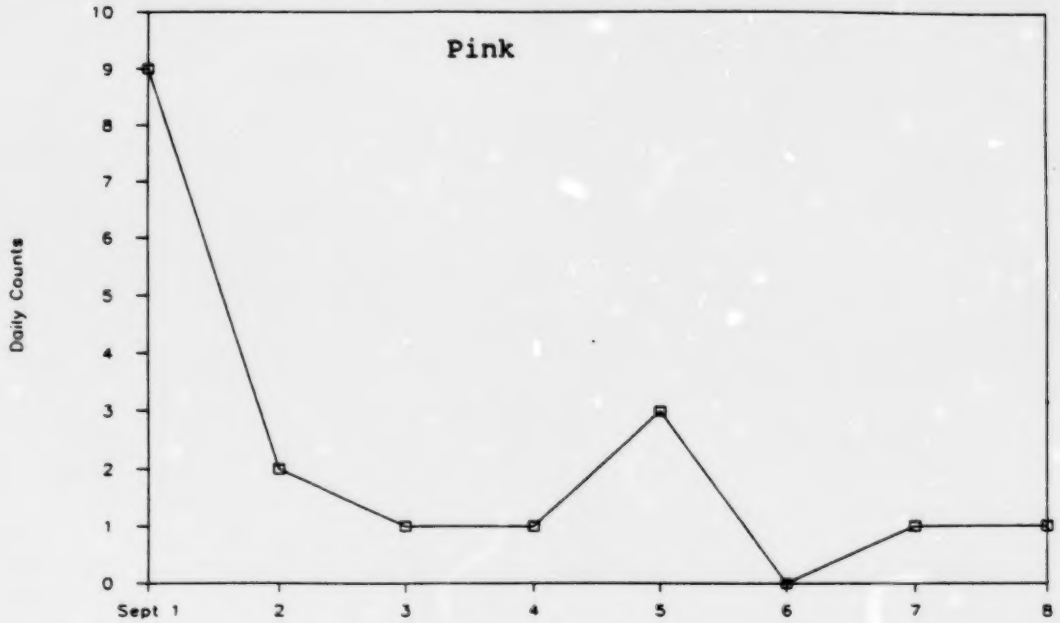


Figure 6. Daily Meziadin Fishway counts of Coho, 1989.



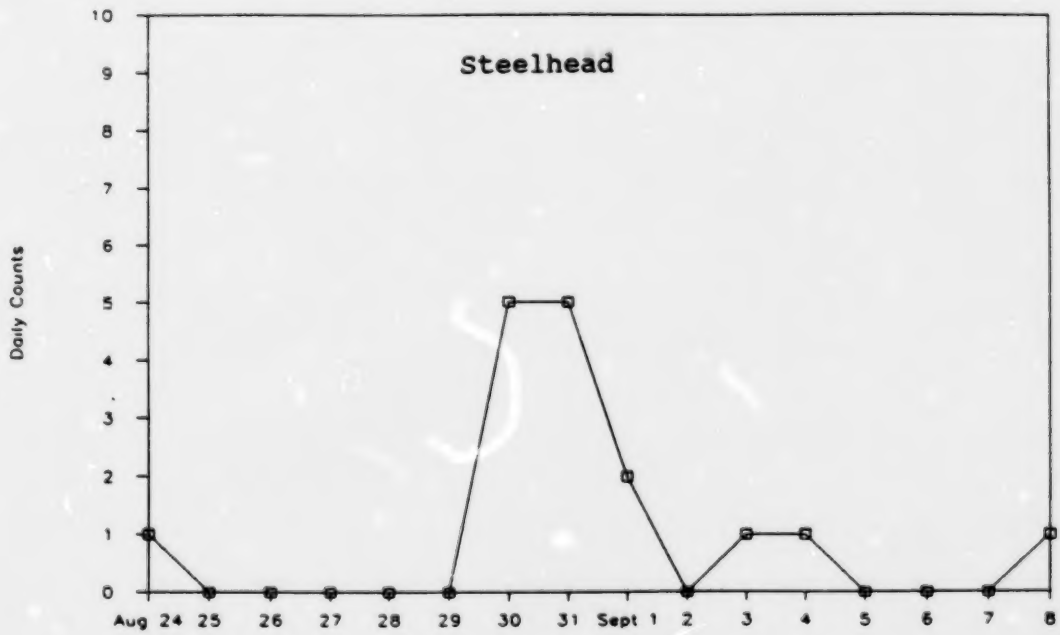


Figure 7. Daily Meziadin Fishway counts of Pink and Steelhead, 1989.

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
July 11	1	M	555	670		6_3
	2	F	475	570	(12+11)	5_3
	3	M	525	645		5_3
	4	M	555	730		5_2
	5	M	525	695		6_2
	6	F	540	655		6_3
	7	F	530	650		5_3
	8	F	560	670		5_2
	9	M	515	650	(7+12)	5_2
	10	M	505	620		4_3
	11	M	545	650		6_2
	12	M	550	655		6_3
July 12	13	M	470	565		4_3
	14	M	560	715		5_2
	15	M	560	705		5_2
	16	M	560	710		6_2
	17	M	545	690		6_3
	18	F	530	660		5_3
July 13	19	M	545	680		6_2
	20	M	585	725		5_3
	21	M	550	675		6_2
	22	F	540	675		6_3
	23	F	555	665		6_3
	24	F	510	620		6_3
	25	F	485	605		5_3
	26	M	495	640		5_2
	27	M	555	695		6_2
	28	M	515	625	(10+10)	5_3
	29	M	580	690		6_3
	30	M	570	700		6_3
	31	F	530	640		6_3
	32	F	565	670		6_3
	33	M	565	685		RG
July 14	34	F	465	580		4_2
	35	F	530	645		6_3
	36	M	570	690		W
	37	F	550	665		6_3
	38	M	500	625		4_3
	39	F	520	635		5_2
	40	M	585	720		5_2
	41	M	590	710		5_2
	42	F	520	630		5_2
	43	M	595	725		5_2
	44	F	490	595		4_2
	45	F	475	580		5_2
	46	M	470	580		4_3
	47	M	600	745		6_3^2

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
July 15	48	F	550	655		5_2
	49	M	555	685		5_2
	50	F	540	640		6_3
	51	M	495	600		RG
	52	F	540	645		5_2
	53	F	550	655		5_2
	54	F	545	650		6_3
	55	M	580	710		W
	56	M	590	715		6_3
	57	F	450	545		4_2
	58	M	490	590		4_2
	59	M	555	680		UD
	60	M	520	610		6_3
	61	M	560	685		6_3
July 16	62	M	575	725		5_2
	63	M	505	610		W
	64	F	580	690		6_3
	65	M	480	585		4_2
	66	M	600	730		5_2
	67	M	480	600	(5+8)	5_3
	68	M	475	560		4_2
	69	F	475	580		4_2
	70	M	575	695		5_2
	71	M	575	715	(7+9)	5_2
	72	M	485	580		5_2
	73	M	480	575		4_2
	74	M	530	640		5_2
	75	M	490	595	(8+11)	5_3
	76	M	560	750		5_2
	77	M	570	710		5_2
	78	M	550	660		5_2
	79	F	535	650		5_2
	80	F	495	600		5_2
	81	M	595	690		5_2
July 17	82	M	570	660		6_3
	83	F	510	610		6_3
	84	F	555	670		6_3
	85	M	545	660		6_3
	86	M	455	550		4_2
	87	M	520	630		5_2
	88	M	585	715		6_3
	89	M	565	700		6_3
	90	M	530	650		5_2
	91	M	470	580		4_2
	92	M	525	630		5_2
	93	F	545	660		5_2
	94	F	450	550	(11+9)	5_3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
July 17	95	M	495	620		RG
	96	M	580	720		6_3
	97	M	530	670		6_3
	98	M	520	645		5_2
	99	M	475	590	(8+10)	5_3
	100	M	530	660		5_2
	101	F	450	550		4_2
	102	M	485	590		4_2
	103	F	535	640		5_2
	104	M	490	580		4_2
	105	M	535	655		5_2
July 18	106	M	470	555		4_2
	107	M	490	545	(8+10)	5_3
	108	M	470	560		RG
	109	M	570	695		5_2
	110	F	510	610		5_2
	111	M	555	670		5_2
	112	F	480	570		RG
	113	M	515	630		5_2
	114	M	570	690		5_2
	115	M	565	700		5_2
	116	M	480	580		4_2
July 19	117	F	490	590		4_2
	118	M	540	695		6_3
	119	M	465	570		4_2
	120	F	485	585	(9+9)	5_3
	121	F	530	650		5_2
	122	M	550	690		5_2
	123	M	510	610	(10+11)	5_3
	124	M	545	650		5_2
	125	M	445	540		4_2
July 19	126	M	460	550		W
	127	M	440	540		4_2
	128	M	450	530		4_2
	131	M	560	690		W
	132	F	480	575		W
	133	F	475	565		4_2
	134	M	525	615		RG
	135	M	495	610		6_3
	136	M	520	635		6_3
	137	M	560	720		6_3
	138	F	515	610		5_3
	139	F	500	620		6_2
	140	M	520	645		6_3
July 20	141	M	570	680		5_2
	142	M	560	680		6_2^3
	143	M	485	600		4_2

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
July 20	144	F	520	640		RG
	145	M	480	580	(9+11)	5_3
	146	F	455	550	(8+9)	5_3
	147	M	480	570	(9+11)	5_3
	148	M	465	580		4_2
	149	F	470	570		RG
	150	M	470	590	(7+9)	5_3
	151	M	510	640		5_2
	152	M	530	640		5_2
	153	M	445	540		4_2
	154	M	550	640		6_3
	155	M	500	620	(7+9)	5_3
	156	M	445	530		RG
	157	F	525	640		6_3
July 21	158	F	440	550	(6+10)	5_3
	159	M	530	670		5_2
	160	M	490	600		RG
	161	M	485	590		4_2
	162	M	560	700		5_2
	164	M	460	550		4_2
	165	M	555	690		5_2
	166	M	585	710		5_2
	167	M	550	680		5_2
	168	M	580	705		6_3
	169	F	470	575	(6+12)	5_3
	170	M	540	680		5_2
	171	M	490	600		4_2
	172	M	560	690		5_2
	173	F	540	670		5_2
	174	M	495	610		4_2
	175	M	460	560	(8+9)	5_3
	176	M	530	660		6_3
	177	M	490	640		RG
	178	F	525	625		5_2
	179	F	520	655		6_3
	180	F	450	580		4_2
	181	M	455	570	(9+12)	5_3
	182	M	430	545		RG
	183	M	555	680		6_3
	184	M	540	650		6_3
July 22	185	M	495	610		4_2
	186	M	550	685		6_3
	187	M	530	670		6_3
	188	M	460	560	(8+8)	5_3
	189	M	470	580		4_2
	190	M	510	610	(8+10)	5_3
	191	F	470	560		RG

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
July 22	192	M	480	505		4_2
	193	M	585	740		6_3^2
	194	F	535	655		6_3
	195	F	530	660		5_3
	196	M	490	580		4_2^2
	197	M	560	690		5_2^2
	198	M	520	630		6_2^2
	199	F	460	570	(9+11)	5_3^3
	200	M	460	550		4_3^3
	201	M	570	710		6_2^2
	202	M	460	570	(6+10)	5_3^3
	203	F	530	640		6_3^3
	204	M	500	610	(10+14)	W
	205	F	455	560		5_3
	206	M	490	610	(9+9)	5_3^3
	207	F	485	600	(8+9)	6_3^3
	208	M	530	650		6_3^3
	209	M	470	550		RG
July 23	210	M	555	680		W
	211	M	570	680		6_3
	212	M	480	600		4_2^3
	213	F	545	670		6_3^2
	214	M	500	610		4_2^3
	215	M	600	720		RG
	216	M	570	705		6_3
	217	F	475	580		4_2^3
	218	F	480	580		4_2^2
	219	M	590	710		5_2^2
	220	M	570	700		6_2^2
	221	M	505	630	(9+12)	5_3^3
	222	F	460	570		W
	223	M	570	690		5_2
	224	M	560	700		5_2^2
	225	M	430	530		4_2^2
	226	M	495	610		4_2^2
	227	F	465	550		4_2^2
	228	F	565	660		6_3^2
	229	M	490	610	(7+12)	5_3^3
	230	M	570	700		6_3^3
	231	M	555	670		5_3^3
	232	M	580	720		5_2^2
	233	M	465	570		4_2^2
	234	F	535	660		5_2^2
	235	F	495	590	(8+10)	5_3^2
July 24	236	F	440	550		4_2^3
	237	F	460	570	(8+10)	5_3^2
	238	M	490	600		6_3^3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
July 24	239	M	550	665		RG
	240	F	495	590	(9+6)	5_3
	241	M	560	720		6_3
	242	M	575	710		6_3
	243	M	565	700		6_3
	244	M	515	620	(8+10)	5_3
	245	M	525	630	(7+11)	5_3
	246	M	450	550		4_2
	247	M	450	570		4_2
	248	M	530	660		5_2
	249	F	520	650		5_2
	250	M	500	610	(8+10)	5_2
	251	M	465	560	(7+12)	5_3
	252	M	475	570	(7+11)	5_3
July 25	253	M	435	540		4_2
	254	F	420	540		4_2
	255	M	560	690		5_2
	256	M	540	650		5_2
	257	M	475	610		5_2
	258	F	455	580		4_2
	259	M	430	530	(8+10)	5_3
	260	M	445	575	(7+10)	5_3
	261	F	545	680		6_3
	262	M	455	570	(11+11)	5_3
	263	M	450	550		RG
	264	F	480	570	(8+10)	5_3
	265	M	510	660		6_3
	266	F	455	560	(8+11)	5_3
	267	M	455	550		4_2
	268	M	485	620		4_2
	269	F	480	590		6_3
	270	M	505	640		5_2
July 26	271	F	465	570	(8+10)	5_3
	272	M	515	640		5_2
	273	M	475	600	(7+11)	5_3
	274	F	525	630		6_3
	275	M	520	640		5_2
	276	M	520	630		4_2
	277	M	470	570		4_2
	278	M	515	620		RG
	279	M	600	725		5_2
	280	M	500	610		4_2
	281	M	580	700		6_3
	282	M	450	540		NS
	283	M	460	590		4_2
	284	M	530	650		5_2
	285	M	470	610		4_2

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
July 26	286	M	475	570	(7+10)	5_3
	287	M	540	690		6_3
	288	M	520	680		6_3
	289	F	485	580		5_3
	290	F	450	550	(8+11)	5_2
	291	M	555	690		6_3
July 27	292	M	590	705		6_3
	293	M	460	560		4_2
	294	F	495	610		6_3
	295	F	475	590	(7+10)	5_3
	296	M	455	560	(8+9)	5_3
	297	M	560	700		6_3
	298	M	510	620	(8+8)	5_3
	299	M	590	730		6_3
	300	M	530	670		5_3
	301	M	605	725		6_2
	302	M	570	705		6_3
	303	F	485	580		5_3
	304	F	555	660		RS
July 28	305	M	505	615		NS
	306	M	610	745		6_3
	307	F	580	700		5_3
	308	M	565	700		5_2
	309	M	490	580		W
July 29	310	F	495	590		4_2
	311	M	585	710		6_3
	312	F	455	550	(8+10)	5_3
	313	M	550	690		6_3
July 30	314	M	495	590	(9+11)	5_3
	315	M	545	695		5_2
	316	M	470	570	(11+8)	5_2
	317	M	565	705		6_3
	318	M	520	650		6_3
	319	F	575	690		5_3
	320	M	480	585		4_2
	321	F	485	580		4_2
	322	M	620	745		6_2
	323	F	510	610		RG
	324	M	485	600		4_2
	325	M	585	710		6_3
	326	M	555	685		6_3
	327	M	480	590		4_2
	328	M	560	660		5_2
	329	M	550	660		6_2
	330	M	585	710		6_3
	331	F	490	590		RG
July 31	332	M	560	685		6_3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
July 31	333	F	465	560		4_2
	334	M	440	520		RG
	335	M	445	525		4_2
	336	F	500	590		4_2
	337	F	510	600		4_2
	338	M	470	560		4_2
	339	M	570	685		6_3
	340	M	570	680		6_3
	341	F	490	595	(9+8)	5_3
	342	M	575	695		5_3
	343	F	520	610		RG
	344	M	570	690		6_3
Aug 1	345	M	585	680		5_2
	346	M	585	725		6_3
	347	M	605	740		6_3
	348	F	570	685		5_2
	349	M	460	590		4_2
	350	M	495	590		4_2
	351	F	445	605	(9+9)	5_3
	352	F	510	615		RG
	353	M	580	700		6_3
	354	F	505	620		5_2
	355	F	475	575		4_2
	356	F	490	595		4_2
	357	M	560	675		5_2
	358	M	455	550		4_2
	359	M	490	600		4_2
	360	F	475	570		4_2
	361	M	575	700		5_2
Aug 2	362	M	620	735		6_3
	363	F	585	715		6_3
	364	M	555	660		RG
	365	M	470	570		4_2
	366	M	485	580	(8+12)	5_3
	367	F	515	620		5_3
	368	F	550	660		RG
	369	M	590	720		5_2
	370	M	570	690		6_3
	371	M	480	590	(9+11)	5_3
	372	M	485	580		4_2
	373	M	510	600		4_2
	374	M	585	690		5_2
	375	M	615	745		6_3
	376	F	450	540		4_2
	377	F	590	695		6_3
	378	M	560	670		RG
Aug 3	379	M	560	670		5_2

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 3	380	F	545	650		6_3
	381	F	560	670		6_3
	382	M	575	690		6_3
	383	M	480	565		4_2
	384	M	465	570		5_3
	385	M	530	660		5_3
	386	M	455	550		4_2
	387	M	590	720		6_3
	388	M	525	650		4_2
	389	F	455	570	(8+11)	5_3
	390	M	570	700		6_3
	391	M	600	755		6_3
	392	F	535	650		RG
	393	M	600	720		6_3
	394	M	460	590	(7+12)	5_3
	395	M	600	710		RG
	396	M	495	630		4_2
	397	M	550	680		6_3
	398	M	565	710		6_3
Aug 4	399	M	580	710		6_3
	400	M	465	580	(6+13)	5_3
	401	M	580	710		6_3
	402	M	575	710		5_3
	403	M	590	720		6_3
	404	M	595	720		5_2
	405	M	555	680		6_3
	406	M	605	730		6_3
	407	M	450	560	(8+11)	5_3
	408	M	600	720		5_2
	409	M	525	630	(8+10)	5_3
	410	F	460	560		4_2
	411	F	475	570		4_2
	412	F	535	660		6_3
	413	M	500	610		6_3
	414	M	575	690		6_3
	415	F	505	600		4_2
	416	M	535	650		6_3
Aug 5	417	M	560	675		6_3
	418	F	490	610	(7+9)	5_3
	419	M	455	550		4_2
	420	M	560	680		6_3
	421	M	495	630		RS
	422	F	500	600		4_2
	423	M	535	650		RS
	424	M	560	685		5_2
	425	M	540	690		6_3
	426	M	540	670		6_3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 5	427	F	460	560	(6+7)	5_3
	428	M	550	670		5_2
	429	F	560	650		5_2
	430	F	570	675		6_3
	431	M	575	695		RG
	432	M	505	630		6_3
	433	F	535	630		6_3
	434	F	500	595		W
Aug 6	435	M	465	560	(6+10)	5_3
	436	M	505	615	(8+11)	5_3
	437	M	565	700		5_2
	438	M	500	630		4_2
	439	M	600	730		6_2
	440	F	500	600	(8+7)	5_3
	441	M	590	725		6_3
	442	M	560	700		5_2
	443	F	485	580		RG
	444	F	450	555	(8+10)	5_3
	445	F	535	650		5_2
	446	M	535	650		5_2
	447	F	470	575		4_2
Aug 7	448	M	445	535	(6+9)	5_3
	449	F	540	650		6_3
	450	F	480	590		4_2
	451	M	485	570		4_2
	452	M	570	710		6_3
	453	M	600	730		6_3
	454	F	520	635		5_2
	455	F	580	705		6_3
	456	F	560	680		6_3
	457	F	520	620	(7+8)	5_3
	458	F	495	590		4_2
	459	M	480	570	(6+10)	5_3
	460	M	595	710		6_3
	461	M	545	670		6_3
	462	M	580	730		6_3
	463	M	585	710		6_3
	464	F	535	640		6_3
	465	F	490	600	(8+9)	5_3
	466	M	600	725		6_3
	467	M	570	690		6_3
	468	M	590	700		6_3
	469	F	510	620		4_2
	470	M	605	740		RG
	471	M	500	635		5_3
	472	M	425	505		5_3
	473	M	605	715		4_2

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 7	474	M	605	730		6_3
	475	M	405	500		5_3
	476	M	475	580	(6+12)	5_3
	477	F	590	710		6_3
Aug 8	478	F	455	560		4_2
	479	F	545	665		6_3
	480	F	425	530		RS
	481	M	580	695		6_3
	482	M	570	700		6_3
	483	M	535	620	(7+10)	5_3
	484	F	485	590		4_2
	485	M	470	560	(7+9)	5_3
	486	M	605	745		6_3
	487	M	450	550		5_3
	488	M	600	725		6_3
	489	M	440	540		4_2
	490	M	435	550		4_2
	491	F	495	610	(9+9)	5_3
	492	M	610	750		6_3
	493	M	515	625		6_3
	494	F	565	690		6_3
	495	M	460	585	(8+7)	5_3
	496	F	540	650		6_3
	497	M	480	570	(8+9)	5_3
Aug 9	498	F	465	565		4_2
	499	F	460	550	(6+12)	5_3
	500	M	460	545		4_2
	501	F	545	645		6_3
	502	M	430	515	(9+8)	5_3
	503	M	470	570		4_2
	504	F	555	690		6_3
	505	M	475	580	(7+10)	5_3
	506	M	560	665		5_2
	507	M	595	730		W
	508	M	605	725		6_3
	509	M	575	695		6_3
	510	F	450	540		4_2
	511	M	595	710		6_3
	512	F	530	645		6_3
	513	M	570	690		6_3
	514	M	520	635	(8+10)	5_3
	515	M	425	515		4_2
	516	F	595	605		5_2
	517	M	590	715		5_2
	518	F	505	620	(7+9)	5_2
	519	M	525	640	(10+9)	5_3
	520	M	575	715		5_2

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 9	521	F	480	590	(8+9)	5_3
	522	M	550	680		6_3
	523	M	580	710		6_3
	524	M	480	580	(6+11)	5_3
	525	F	485	580		4_2
	526	M	535	650		6_3
	527	F	495	590	(8+9)	5_3
Aug 10	528	M	565	680		6_3
	529	M	555	680		6_3
	530	M	550	670		6_3
	531	M	595	710		6_3
	532	M	585	700		6_3
	533	M	585	705		6_3
	534	F	545	660		5_2
	535	M	485	580	(8+10)	5_3
	536	F	495	595		RG
	537	M	510	620		5_2
	538	M	510	620	(10+7)	5_3
	539	M	550	660		6_3
	540	F	560	670		6_3
	541	F	590	710		6_3
	542	M	490	580	(4+7)	5_3
	543	M	515	610	(7+9)	5_3
	544	M	540	650		6_3
	545	F	535	655		6_3
	546	F	575	670		5_2
	547	M	430	540	(4+10)	5_3
	548	F	455	535		W
Aug 11	553	F	480	580		6_3
	554	M	590	700		6_3
	555	M	500	610		4_2
	556	F	495	590		4_2
	557	M	475	590	(7+10)	5_2
	558	F	525	630		5_3
	559	M	470	540		4_2
	560	M	560	680		5_2
	561	F	530	635	(8+10)	5_3
	562	M	610	705		6_3
	563	M	575	690		6_3
	564	M	570	690		6_3
	565	M	460	565		4_2
	566	F	545	660		6_3
	567	M	530	640	(9+7)	5_3
	568	M	600	710		6_3
	569	M	605	730		6_3
	570	F	525	620		4_2
	571	F	545	650		5_2

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 11	572	F	500	600	(10+10)	5_3
	573	M	560	680		6_3
	574	F	540	640		5_3
	575	F	495	610	(6+8)	5_2
	576	F	485	585	(9+8)	5_3
	577	M	595	720		5_3
	578	F	580	670		5_2
	579	M	520	630	(6+9)	5_2
	580	M	620	735		6_3
	581	M	485	590		4_3
	582	M	440	540		4_2
	583	F	505	595	(11+8)	RG
	584	F	590	700		5_3
	585	M	585	700		6_3
	586	F	475	580	(7+8)	6_3
Aug 12	587	M	600	735		5_3
	588	M	595	725		6_3
	589	M	555	690		6_3
	590	M	465	570		5_2
	591	F	570	700		4_2
	592	M	515	630	(5+11)	6_2
	593	M	440	530	(7+9)	5_3
	594	M	540	660	(9+7)	5_3
	595	M	475	580		5_3
	596	F	460	570	(9+9)	4_3
	597	M	525	630	(6+10)	5_2
	598	F	475	560	(6+10)	5_3
	599	M	600	740		5_3
	600	M	595	720		RG
	601	M	575	695		6_3
	602	M	535	645	(7+10)	6_3
	603	F	565	675		5_3
	604	M	510	620	(7+7)	6_3
	605	F	560	655		5_3
	606	M	445	595		6_3
	607	M	525	620		4_2
	608	F	580	675		4_2
	609	F	565	675		W
	610	F	540	660		W
Aug 13	611	M	570	710		W
	612	M	600	720		W
	613	F	600	710		6_3
	614	M	610	745		6_3
	615	F	590	710		6_3
	616	F	495	580		6_3
	617	M	590	710		4_3
	618	M	590	710		6_2
						6_3
						6_3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 13	619	F	560	670		RG
	620	M	585	720		6_3
	621	M	585	720		6_3
	622	F	540	745		6_3
	623	M	600	730		5_3
	624	M	490	590	(6+11)	5_2
	625	F	480	585		$_3W$
	626	F	570	680		6_3
	627	M	600	505		6_3
	628	F	475	560		4_2
	629	M	560	690		6_3
	630	F	580	680		6_3
	631	M	580	700		6_3
Aug 14	632	M	560	660	(5+12)	5_3
	633	M	575	710		6_3
	634	M	510	630		4_2
	635	M	440	540		RG
	636	M	525	630	(6+9)	5_3
	637	M	490	610	(7+10)	5_3
	638	M	595	715		5_2
	639	F	525	630		6_3
	640	M	585	710		6_3
	641	M	565	680		5_3
	642	F	575	680		6_2
	643	F	560	680		6_3
	644	M	580	710		6_3
	645	M	600	735		6_3
	646	F	465	570		$_3W$
	647	M	535	660		6_3
	648	F	515	620		RG
	649	F	485	580		RG
	650	M	465	570	(8+9)	5_3
	651	F	570	695		6_3
	652	F	540	635		6_3
	653	F	530	625	(8+9)	5_3
	654	M	625	755		6_3
	655	M	435	510	(7+9)	5_3
	656	M	490	590	(8+6)	5_3
Aug 14	657	M	590	705		6_3
	658	F	490	585	(7+10)	5_3
	659	M	585	700		6_3
	660	M	525	635	(9+10)	5_3
	661	F	555	660		6_3
	662	M	575	700		6_3
	663	M	455	540		RG
	664	F	485	580	(8+8)	5_3
	665	F	490	590		4_2

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 14	666	F	490	595	(6+11)	5_3
	667	F	575	675		5_3
Aug 15	668	M	460	560	(8+9)	5_2
	669	F	500	600	(9+8)	5_3
	670	F	495	580		RG
	671	M	495	590	(7+10)	5_3
	672	M	550	665	(7+7)	5_3
	673	M	560	675		5_2
	674	M	495	615	(11+11)	5_3
	675	F	495	600		RG
	676	M	560	665		6_3
	677	M	540	635	(8+11)	5_3
	678	F	555	665		RG
	679	M	440	540		4_2
	680	F	490	590	(7+10)	5_3
	681	M	615	745		6_3
	682	F	475	580	(8+10)	5_3
	683	F	585	695		6_3
	684	M	525	630		4_2
	685	M	510	635	(7+9)	5_3
	686	M	455	575		RG
	687	F	525	630	(5+10)	5_3
	688	M	535	660		RG
	689	F	470	580	(8+8)	5_3
	690	M	585	690		6_3
	691	M	465	560		RS
Aug 16	692	M	585	700		6_3
	693	M	565	660		6_3
	694	M	490	605	(7+9)	5_3
	695	M	605	730		6_3
	696	M	560	690		6_3
	697	M	550	660		6_3
	698	M	515	610	(7+7)	5_3
	699	M	435	525		4_2
	700	M	495	600		4_2
	701	F	485	590		5_3
	702	M	585	705		6_3
	703	F	490	585	(9+10)	5_3
	704	M	490	595	(8+10)	5_3
	705	M	500	615	(10+8)	5_3
	706	M	615	740		6_3
	707	M	585	710		RG
	708	M	545	685		6_3
	709	M	525	640		W
	710	M	590	710		6_3
	711	M	565	680		6_3
	712	M	590	715		6_3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 16	713	M	515	610	(7+13)	5_3
	714	F	515	620		5_3
	715	M	560	690		6_3
	716	F	480	575		RG
	717	F	505	605	(7+10)	5_3
	718	M	470	560	(9+8)	5_3
	719	M	600	730		6_3
	720	M	425	525	(9+8)	5_3
	721	M	615	740		6_3
AUG 17	722	F	560	675		6_3
	723	F	480	575		4_2
	724	F	540	655		6_3
	725	M	445	550		4_3
	726	F	595	705		6_2
	727	F	535	640		RG
	728	M	530	640	(8+9)	5_3
	729	M	505	715		6_3
	730	M	625	760		6_3
	731	F	555	675		5_3
	732	M	555	665		5_2
	733	M	610	740		6_2
	734	F	475	570		W
	735	M	545	660		6_3
	736	M	575	685		5_2
	737	F	480	585		W
	738	F	555	665		6_3
	739	F	585	700		6_3
	740	M	505	620	(7+9)	5_3
	741	M	585	710		RG
	742	M	570	690		6_3
	743	F	570	675		6_3
	744	M	610	730		W
	745	M	575	680		5_2
	746	M	570	705		6_3
	747	F	460	560		RG
	748	M	490	595	(9+5)	5_3
	749	M	495	590	(9+8)	5_3
	750	M	585	690		W
	751	M	475	580		4_2
Aug 18	752	M	600	720		6_3
	753	M	585	710		6_3
	754	M	590	700		5_2
	755	M	565	685		6_3
	756	M	585	700		6_3
	757	M	500	605	(7+10)	5_3
	758	M	495	600		4_3
	759	M	595	710		W

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 18	760	M	585	695		6_3
	761	F	490	585	(9+8)	5_3
Aug 19	762	M	540	655		6_3
	763	F	485	570		4_2
	764	F	560	660		6_3
	765	M	620	745		6_3
	766	M	515	620		W
	767	F	520	600	(8+7)	5_3
	768	M	580	710		6_3
	769	M	435	510		4_2
	770	F	510	610		5_2
	771	F	490	580	(8+8)	5_2
	772	M	640	765		6_3
	773	F	530	645		RG
	774	F	490	600		RG
	775	F	485	570		5_2
	776	F	540	650		5_2
	777	F	525	640	(9+12)	5_3
	778	M	535	655	(7+9)	5_3
	779	F	490	590	(9+10)	5_3
	780	F	525	620		5_2
	781	M	470	580		W
	782	F	490	580	(7+9)	5_3
Aug 20	783	F	445	540	(10+10)	5_3
	784	M	585	705		6_3
	785	M	495	600		4_2
	786	F	470	575		4_2
	787	M	595	710		6_3
	788	F	445	525		4_2
	789	F	480	590	(7+9)	5_3
	790	M	585	710		6_3
	791	M	560	690		6_3
	792	M	505	620		6_3
	793	F	505	620		W
	794	M	560	675		6_3
	795	M	575	695		6_3
	796	M	590	710		6_3
	797	F	495	590	(8+6)	5_3
	798	M	595	720		6_3
	799	M	505	610	(8+11)	5_3
	800	M	500	605	(7+10)	5_3
	801	F	600	715		6_3
	802	M	450	550		4_2
	803	F	525	625		6_3
	804	M	520	625	(9+11)	5_3
	805	F	505	605		W
Aug 21	806	M	560	660		6_3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 21	807	F	555	660		6_3
	808	M	530	640	(9+12)	5_3
	809	M	440	525		4_2
	810	F	505	610	(7+9)	5_3
	811	F	515	620		5_2
	812	F	510	605	(7+11)	5_3
	813	M	595	720		6_3
	814	F	550	655		6_3
	815	M	575	690		5_2
	816	M	610	745		6_3
	817	M	625	745		6_3
	818	M	485	595	(8+8)	5_3
	819	M	595	710		6_3
	820	M	615	725		W
	821	M	590	730		6_3
	822	M	500	610	(7+9)	5_3
	823	F	475	570		RG
	824	M	590	700		6_3
	825	F	485	580	(10+10)	5_3
	826	M	605	720		6_3
	827	F	545	645	(9+9)	5_3
	828	M	605	700		6_3
Aug 22	832	F	495			5_3
	833	F	560			RG
	834	M	595			RG
	835	F	465			W
	836	F	490			W
	837	F	555			6_3
	838	M	525			6_3
	839	F	565			6_3
	840	M	520		(6+10)	5_3
	841	M	565			6_3
	842	F	465			RG
	843	F	495		(7+10)	5_3
	844	F	490		(8+10)	5_3
	845	F	460			W
	846	F	495		(7+7)	5_3
	847	M	555			6_3
	848	F	520			5_2
	849	M	580			6_3
	850	M	610			6_3
	851	M	575			6_3
	852	F	510		(7+8)	5_3
	853	F	485			RG
	854	M	580			6_3
	855	F	555			6_3
	856	M	595			6_3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 23	903	F	520		(10+12)	5_3
	904	M	560	685		5_3
	905	F	570	680		6_2
	906	F	555	680		6_3
	907	F	495	600	(6+6)	5_3
	908	F	540	650		5_3
	909	F	615	720		6_2
	910	F	505	600	(8+8)	5_3
	911	F	525	620	(10+9)	5_3
	912	F	535	650		6_3
	913	F	585	710		6_3
	914	F	570	690		RG
	915	M	590	710		6_3
	916	M	570	700		RG
	919	F	520	620	(6+10)	5_3
	920	M	520	630		6_3
	921	M	460	560		RG
	922	M	580	705		6_3
	923	M	585	720		6_3
	924	F	475	580		4_2
	925	M	590	725		6_3
	926	F	580	695		6_3
	927	M	480	590		4_2
	928	F	565	660		6_3
	929	M	605	740		6_3
	930	M	575	700		6_3
	931	F	475	580	(7+8)	5_3
Aug 24	932	M	510	615	(7+9)	5_3
	933	F	545	660	(8+9)	5_3
	934	M	555	670		5_2
	935	M	630	735		6_3
	936	M	495	610		5_3
	937	F	555	680		6_3
	938	F	535	645	(8+9)	5_3
	939	M	585	710		6_3
	940	F	480	575	(7+10)	5_3
	941	M	560	675		6_3
	942	M	550	680		5_3
	943	F	580	690		6_2
	944	F	495	600	(7+8)	5_3
	945	F	600	710		5_3
	946	M	610	725		$_2$W
	947	F	520	610	(8+10)	5_3
	948	F	485	585		4_2
	949	M	490	605	(10+7)	5_3
	950	M	590	725		6_3
	951	F	550	665		6_3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 25	952	F	520	615	(10+8)	5_3
	953	M	580	705		5_2
	954	F	485	580	(8+8)	5_3
	955	F	490	580	(6+11)	5_3
	956	M	595	715		6_3
	957	F	575	690		6_3
	958	M	580	700		RG
	959	M	490	600	(8+8)	5_3
	960	M	520	630	(8+8)	5_3
	961	F	515	610	(10+9)	5_3
	962	F	520	620	(8+8)	5_3
	963	F	515	610	(8+10)	5_3
	964	F	570	675		5_2
	965	M	560	675		6_3
Aug 26	966	F	510	600	(8+12)	5_3
	967	F	565	690		6_3
	968	M	595	715		6_3
	969	M	600	715		6_3
	970	M	455	560		4_2
	971	F	515	605	(8+9)	5_3
	972	M	505	610		4_2
	973	M	580	710		6_3
	974	F	585	685		6_3
Aug 27	975	F	495	570	(6+9)	5_3
	976	M	585	700		6_3
	977	M	555	670		5_2
	978	F	570	685		6_3
	979	M	435	515		RG
	980	F	580	700		6_3
	981	F	555	655		RG
	982	F	540	640		5_2
	983	M	585	695		6_3
	984	F	590	710		6_3
	985	F	500	585		W
	986	F	470	560		4_2
	987	F	525	620	(7+12)	5_3
	988	M	545	660		5_2
	989	M	600	720		6_3
Aug 28	990	F	490	595	(8+8)	5_3
	991	M	505	610	(6+10)	5_3
	992	F	505	590	(6+8)	5_3
	993	M	630	760		6_3
	994	M	605	730		6_3
	995	M	580	710		6_3
	996	F	510	610		5_3
	997	F	540	645		W
	998	F	525	630		5_2

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 28	999	M	490	600		4_2
	1000	M	600	730		6_3
	1001	F	595	715		6_3
	1002	F	475	580		5_3
	1003	F	475	570		4_2
	1004	M	580	705		6_3
	1005	F	560	670		6_3
	1006	M	590	710		6_3
	1007	F	605	730		6_3
	1008	M	515	615		RG
	1009	M	620	750		6_3
Sept 1	1010	M	610	750		RG
	1011	M	565	680		5_2
	1012	F	570	680		6_3
	1013	F	505	605	(7+9)	5_3
	1014	F	540	635		5_3
	1015	F	500	600	(4+11)	5_2
	1016	F	510	620		6_3
	1017	F	495	590		5_3
	1018	M	540	640	(8+12)	5_2
	1019	M	425	500		4_2
	1020	F	600	705		6_3
	1021	F	505	580		5_2
	1022	F	520	670		6_3
	1023	M	575	700		6_3
	1024	F	540	645		6_3
	1025	F	475	585	(8+8)	5_3
	1026	M	565	670		5_2
	1027	F	495	605	(8+10)	5_3
	1028	M	420	515		4_2
	1029	M	385	490		4_2
	1030	M	595	725		6_3
	1031	F	540	645		5_2
	1032	F	540	640		6_3
	1033	M	560	665		6_3
	1034	M	480	590		4_2
Sept 2	1035	F	480	585	(8+8)	5_3
	1036	F	500	595		5_2
	1037	F	420	500		4_2
	1038	F	440	530		4_2
	1039	F	460	550		5_2
	1040	F	555	655		5_2
	1041	F	470	560		RG
	1042	F	550	660		5_2
	1043	F	465	560		4_2
	1044	F	480	580		5_2
	1045	F	490	585		RG

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Sept 2	1046	F	470	560		4_2
	1047	F	420	500		RG
	1048	F	460	560		4_2
Sept 3	1049	F	480	575	(6+10)	5_3
	1050	F	555	670		6_3
	1051	F	495	590		5_3
	1052	F	550	675		6_2
	1053	F	415	510		4_3
	1054	F	480	590	(7+9)	5_2
	1055	F	570	680		5_3
	1056	F	455	560		4_2
	1057	M	405	490		4_2
	1058	F	500	595		RG
	1059	F	520	620		5_2
Sept 4	1060	F	525	645		5_2
	1061	F	555	660		5_2
	1062	F	515	630		5_2
	1063	F	490	590	(7+8)	5_3
	1064	F	525	635		5_2
	1065	F	525	620		5_2
	1066	F	480	585		5_2
	1067	M	590	720		6_2
	1068	M	565	675		5_3
	1069	M	445	540		4_2
	1070	M	585	715		5_2
	1071	M	615	755		6_2
	1072	F	520	615		5_3
	1073	M	430	535		4_2
	1074	F	515	635		5_2
Sept 5	1075	M	560	690		5_2
	1076	M	565	690		5_2
	1077	F	450	535		4_2
	1078	F	425	510		4_2
	1079	M	605	730		6_3
	1080	F	455	545		4_2
	1081	M	495	605		4_2
	1082	M	400	490	(8+8)	5_2
	1083	F	470	560		4_3
	1084	M	400	480		4_2
Sept 6	1085	F	470	570		5_2
	1086	F	475	575		5_2
	1087	M	365	445		4_3
	1088	F	480	590		5_2
	1089	M	525	635	(6+9)	5_2
	1090	F	535	645		5_3
	1091	F	500	605		5_2
	1092	M	570	695		6_3

Table IV

Biological information from Sockeye samples collected daily at the Meziadin Fishway, 1989.

Date	Fin Clip #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Sept 6	1093	F	415	505		4_2
	1094	F	425	520		4_2
	1095	M	595	735		6_2
	1096	F	470	570		5_3
Sept 7	1097	F	530	650		6_2
	1098	M	590	710		6_3
	1099	M	405	495		4_2
	1100	M	430	520		4_2
	1101	F	550	655		5_2
	1102	F	470	570		W
	1103	F	500	595		6_3
	1104	F	485	580		5_2
	1105	F	590	700		6_2
	1106	M	565	685		5_2
	1107	M	455	540		4_2
	1108	F	510	610		5_2
	1109	F	510	620		5_2

Key : RS = Resorbed
RG = Regenerate
NS = No Scale
W = Wet

Table V

Biological information obtained from Sockeye samples collected at Bowser Lake, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Sept 8	1	M	540	710		5_2
	2	M	535	680		5_2
	3	M	530	675		6_2
	4	M	500	640	(5+10)	5_3
	5	M	545	695		6_3
	6	M	545	700		6_3
	7	M	560	725		5_3
	8	M	490	630		4_2
	9	M	535	680		6_2
	10	M	545	720		5_3
	11	M	555	705		5_2
	12	M	555	710		6_3
	13	M	565	725		6_3
	14	M	550	705		6_3
	15	M	465	610	(6+11)	5_3
	16	M	510	660		5_2
	17	M	480	625		5_2
	18	M	560	730		5_2
	19	M	540	695		5_2
	20	M	570	730		6_2
	21	M	500	650		5_3
	22	M	510	650		6_2
	23	M	480	615		6_3
	24	M	565	720		6_3
	25	M	545	710		6_3
Sept 8	26	F	510	620		5_2
	27	F	465	560	(3+13)	5_3
	28	F	495	610		5_2
	29	F	515	660		5_2
	30	F	490	605		6_3
	31	F	470	585		4_3
	32	F	510	635		5_2
	33	F	545	680		5_2
	34	F	530	655		5_2
	35	F	520	645		6_2
	36	F	470	580	(6+10)	5_3
	37	F	515	650		5_3
	38	F	490	585		6_2
	39	F	525	655		6_3
	40	F	560	685		5_3
	41	F	445	550		4_2
	42	F	470	585	(9+12)	5_2
	43	F	445	545		4_3
	44	F	435	530	(6+9)	5_2
	45	F	440	550	(6+11)	5_3
	46	F	525	655		6_3
	47	F	535	660		6_3
	48	F	510	640		6_3

Table V

Biological information obtained from Sockeye samples collected at Bowser Lake, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
	49	F	525	655		5_2
	50	F	490	645		6_3
Sept 8	51	F	510	635		6_3
	52	F	465	570	(6+12)	5_3
	53	F	535	665		5_3
	54	F	475	585	(6+15)	5_2
	55	F	550	675		5_3
	56	F	500	630		5_2
	57	F	505	615		5_2
	58	F	565	690		5_2
	59	F	470	575		4_2
	60	F	460	560	(5+10)	5_2
	61	F	525	655		5_3
	62	F	505	630		6_2
	63	F	450	570	(9+12)	5_3
	64	F	545	670		5_3
	65	F	475	580	(8+11)	5_2
	66	F	510	630		6_3
	67	F	535	655		6_3
	68	F	455	565	(4+10)	5_3
	69	F	505	635		6_3
	70	F	535	645		5_3
	71	F	540	665		6_2
	72	F	520	650		5_3
	73	F	525	640		5_2
	74	F	535	650		6_2
	75	F	515	645		5_3
Sept 8	76	M	415	520		4_2
	77	M	410	525	(6+13)	5_2
	78	M	470	590		6_3
	79	M	545	700		6_3
	80	M	515	660		6_3
	81	M	490	605	(7+10)	5_3
	82	M	430	535		4_3
	83	M	480	615	(5+9)	5_2
	84	M	530	670		6_3
	85	M	570	715		6_3
	86	M	515	670		5_3
	87	M	455	590	(6+10)	5_2
	88	M	535	660		5_3
	89	M	530	680		6_2
	90	M	545	700		6_3
	91	M	550	700		6_2
	92	M	540	685		5_3
	93	M	505	680		5_2
	94	M	525	685		5_2
	95	M	535	690		5_2
	96	M	530	670		5_2

Table V

Biological information obtained from Sockeye samples collected at Bowser Lake, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
	97	M	520	665		5_2
	98	M	525	680		6_3
	99	F	535	670		6_3
	100	M	475	600	(5+9)	5_3
Sept 8	101	M	500	640	(7+13)	5_3
	102	F	545	685		6_3
	103	M	570	710		5_2
	104	M	555	705		5_2
	105	M	530	680		5_2
	106	M	555	705		5_2
	107	M	455	590	(7+9)	5_2
	108	M	440	555		4_3
	109	M	475	610		5_2
	110	M	500	650	(6+9)	5_3
	111	M	455	585		4_3
	112	M	575	725		6_2
	113	M	535	700		5_3
	114	M	520	665		5_2
	115	M	550	705		5_2
	116	M	550	720		6_2
	117	M	490	620	(6+9)	5_3
	118	M	540	700		5_3
	119	M	420	525		4_2
	120	M	555	695		6_2
	121	M	470	590	(6+9)	5_3
	122	M	520	665		6_3
	123	M	515	640		5_3
	124	M	565	720		6_2
	125	M	550	700		6_3
Sept 8	126	M	530	680		6_3
	127	M	500	625		4_3
	128	M	560	680		6_2
	129	M	525	675		5_3
	130	M	530	690		6_2
	131	M	625	680		6_3
	132	M	535	670		6_3
	133	M	500	635		5_3
	134	M	530	680		5_3
	135	M	495	620		4_2
	136	M	420	510		4_2
	137	M	415	555		5_2
	138	M	430	550	(5+9)	5_3
	139	M	520	670		6_3
	140	M	500	635		5_3
	141	M	540	680		5_2
	142	M	475	610	(4+12)	5_2
	143	M	545	690		6_3
	144	M	555	715		6_3

Table V

Biological information obtained from Sockeye samples collected at Bowser Lake, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
	145	M	540	690		6_3
	146	M	465	575	(5+9)	5_3
	147	M	555	710		4_3
	148	M	540	690		5_2
	149	M	435	570		4_2
	150	M	545	705		6_2
Sept 8	151	M	470	615	(8+9)	5_3
	152	M	540	685		6_3
	153	M	510	660	(6+12)	5_3
	154	M	475	600	(5+11)	5_3
	155	M	545	700		6_3
	156	M	540	695		6_3
	157	M	500	640		5_3
	158	F	510	630		6_3
	159	F	520	645		6_3
	160	F	525	645		5_3
	161	F	515	640		6_2
	162	F	535	660		5_3
	163	F	470	585		4_2
	164	F	470	575	(6+11)	5_2
	165	F	480	585	(5+7)	5_3
	166	F	495	615		6_3
	167	F	515	655		5_3
	168	F	510	630		6_2
	169	F	480	590	(5+13)	5_3
	170	F	445	545	(5+11)	5_3
	171	F	445	550		4_3
	172	F	530	665		6_2
	173	F	460	575		4_3
	174	F	470	595	(8+9)	5_2
	175	F	440	555	(7+9)	5_3
Sept 8	176	F	520	650		6_3
	177	F	535	690		5_3
	178	F	545	680		6_2
	179	F	535	665		5_3
	180	F	515	645		6_2
	181	F	555	685		5_3
	182	F	530	665		5_2
	183	M	540	680		6_2
	184	M	455	570	(6+9)	5_3
	185	M	410	525	(7+11)	5_3
	186	M	560	705		6_3
	187	M	475	625		4_3
	188	M	565	730		6_2
	189	M	460	550	(6+10)	5_3
	190	M	720	555		5_3
	191	M	555	660		6_2
	192	M	535	695		5_2^3

Table V

Biological information obtained from Sockeye samples collected at Bowser Lake, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Sept 8	193	M	545	725		6_3
	194	M	525	685		5_2
	195	M	525	640		6_3

Table VI

Biological information obtained from Sockeye samples collected at Damdochax Lake, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Sept 7	1	F	535	660		5_2
	2	F	475	565		4_2
	3	F	510	610		5_2
	4	F	475	565		4_2
	5	F	530	640		5_2
	6	F	480	575		4_2
	7	F	540	650		5_2
	8	F	475	580		5_2
	9	F	535	655		5_3
	10	F	480	575		4_2
	11	F	540	650		5_2
	12	F	530	645		5_2
	13	F	540	650		5_2
	14	F	465	560		4_2
	15	F	475	575		RS
	16	F	525	650		5_2
	17	F	470	570		4_2
	18	F	455	560		4_2
	19	F	540	640		5_2
	20	F	545	660		5_2
	21	F	465	570		4_2
	22	F	490	590		5_2
	23	F	530	620		5_2
	24	F	485	590		4_2
	25	F	515	625		5_2
Sept 7	26	F	500	600		4_2
	27	F	480	585		4_2
	28	F	460	560		4_2
	29	F	545	665		5_2
	30	F	500	595		5_2
	31	F	475	575		RG
	32	F	530	640		5_2
	33	F	540	640		5_2
	34	F	490	600		6_2
	35	F	570	695		5_3
	36	F	445	545		4_2
	37	F	485	590		4_2
	38	F	525	625		5_2
	39	F	500	610		5_2
	40	F	515	640		5_2
	41	F	520	640		5_2
	42	F	445	545		4_2
	43	F	500	605		5_2
	44	F	525	640		5_2
	45	F	460	565		4_2
	46	F	535	640		5_2
	47	F	535	655		5_2
	48	F	535	650		5_2

Table VI

Biological information obtained from Sockeye samples collected at Damdochax Lake, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
	49	F	495	600		5_2
	50	F	540	650		5_2
Sept 7	51	F	495	595		4_2
	52	F	470	565		4_2
	53	F	465	575		4_2
	54	F	520	635		6_2
	55	F	485	590		4_3
	56	F	485	585		RG
	57	F	525	630		5_2
	58	F	480	595		4_2
	59	F	440	550		4_2
	60	M	470	605		4_2
	61	M	440	560		4_2
	62	M	470	600		4_2
	63	M	520	650		4_2
	64	M	550	705		5_2
	65	M	520	640		5_2
	66	M	580	735		5_2
	67	M	490	615		4_2
	68	M	515	540		RG
	69	M	515	700		5_2
	70	M	505	615		4_2
	71	M	605	700		5_2
	72	M	505	630		4_2
	73	M	560	715		5_2
	74	M	570	720		5_2
	75	M	570	715		5_2
Sept 7	76	M	545	670		5_2
	77	M	505	630		4_2
	78	M	470	590		4_2
	79	M	585	735		5_2
	80	M	490	615		4_2
	81	M	525	650		5_2
	82	M	580	720		5_3
	83	M	475	605		4_2
	84	M	570	725		5_2
	85	M	475	620		4_2
	86	M	565	720		5_2
	87	M	510	660		4_2
	88	M	505	640		5_2
	89	M	560	705		5_2
	90	M	520	660		4_2
	91	M	480	615		4_2
	92	M	505	635		5_2
	93	M	665	740		5_3
	94	M	540	695		5_2
	95	M	575	720		5_2
	96	M	465	595		4_2

Table VI

Biological information obtained from Sockeye samples collected at Damdochax Lake, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Sept 7	97	M	570	705		5_2
	98	M	480	620		4_2
	99	M	490	610		5_2^3
	100	M	555	710		5_2

Table VII

Biological information from Sockeye samples collected at Bonnie Creek, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 29	1	M	455	590		4_2
	2	M	435	550		4_2
	3	M	475	615		4_2
	4	M	445	565		4_2
	5	M	465	600		RS
	6	M	465	595		4_2
	7	M	460	585		4_2
	8	M	455	585		4_2
	9	M	495	635		4_2
	10	M	450	580		4_2
	11	M	480	615		4_2
	12	M	495	635		4_2
	13	M	465	610		4_2
	14	M	435	545		4_2
	15	M	470	595		4_2
	16	M	440	560		4_2
	17	M	460	590		4_2
	18	M	470	600		4_2
	19	F	555	680		5_2
	20	F	485	605		4_2
	21	F	475	590		4_2
	22	F	475	585		4_2
	23	F	470	580		4_2
	24	F	480	595		4_2
	25	F	470	570		4_2
Aug 29	26	M	445	580		4_2
	27	M	515	670		4_2
	28	M	470	610		4_2
	29	M	460	590		4_2
	30	M	495	635		4_2
	31	M	440	560		4_2
	32	M	435	560		4_2
	33	F	440	555		4_2
	34	F	440	550		4_2
	35	F	445	555		4_2
	36	F	460	575		4_2
	37	F	440	550		4_2
	38	F	445	560		4_2
	39	F	490	605		4_2
	40	F	445	565		4_2
	41	F	470	580		4_2
	42	M	430	560		4_2
	43	M	445	575		4_2
	44	M	460	590		4_2
	45	M	440	580		4_2
	46	M	465	610		4_2
	47	M	430	555		4_2
	48	F	525	665		5_2

Table VII

Biological information from Sockeye samples collected at Bonnie Creek, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
	49	M	470	610		4_2
	50	M	455	585		4_2
Aug 29	51	F	460	565		4_2
	52	F	465	575		4_2
	53	M	475	625		4_2
	54	M	425	555		4_2
	55	M	485	625	(7+8)	5_3
	56	M	490	630		4_2
	57	M	450	585		4_2
	58	M	495	635		4_2
	59	M	420	545		4_2
	60	M	440	565		4_2
	61	M	465	600		4_2
	62	M	455	590		4_2
	63	M	475	605		4_2
	64	M	490	635		RS
	65	M	475	605		4_2
	66	M	440	570		4_2
	67	M	450	575		4_2
	68	M	445	565		4_2
	69	M	490	625		4_2
	70	F	515	645		4_2
	71	F	480	615		4_2
	72	F	470	605		4_2
	73	F	485	615		4_2
	74	F	415	530		4_2
	75	M	425	555		4_2

Table VIII

Biological information from Sockeye samples collected at Kwinagese River, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
Aug 30	1	F	475	565		4_2
	2	F	460	575		4_2
	3	F	450	560		4_2
	4	F	430	540		4_2
	5	F	445	565		4_2
	6	F	480	605		4_2
	7	F	450	560		4_2
	8	F	530	655		5_2
	9	F	440	555		4_2
	10	F	450	550		4_2
	11	F	465	565		4_2
	12	F	470	590		4_2
	13	F	470	585		4_2
	14	F	440	545		4_2
	15	F	500	610		4_2
	16	F	440	555		4_2
	17	F	465	565		4_2
	18	F	415	515		4_2
	19	F	450	550		4_2
	20	F	475	590		4_2
	21	F	440	535	(7+6)	5_2
	22	F	405	500		4_3
	23	F	465	580		4_2
	24	F	440	555		4_2
	25	M	500	650		RS
Aug 30	26	F	445	550		4_2
	27	F	465	575		RS
	28	F	490	605		4_2
	29	F	460	565		4_2
	30	F	455	570		4_2
	31	F	455	555		4_2
	32	F	445	545		4_2
	33	F	480	605		4_2
	34	F	445	550		4_2
	35	F	440	555		4_2
	36	F	440	550		4_2
	37	M	480	610		4_2
	38	M	490	610		4_2
	39	M	460	600		4_2
	40	M	465	610		4_2
	41	M	450	575		4_2
	42	M	460	605		4_2
	43	M	450	590		4_2
	44	M	530	675		5_2
	45	M	460	595		4_2
	46	M	460	585		4_2
	47	M	530	675		5_2

Table VIII

Biological information from Sockeye samples collected at Kwinagese River, 1989.

Date	Sample #	Sex	Hypural Length	N/F Length	Circuli Count	Age
	48	M	485	625		RS
	49	M	475	615		4_2
	50	M	495	635		4_2
Aug 30	51	M	465	595		4_2
	52	M	480	600		4_2
	53	M	500	630		RS
	54	M	540	705		5_2
	55	M	460	595		4_2
	56	M	475	620		4_2
	57	M	435	560		4_2
	58	M	460	600		4_2
	59	M	485	635		4_2
	60	M	460	585		4_2
	61	M	480	610		4_2
	62	M	500	645		4_2
	63	M	455	605		4_2
	64	M	515	670		5_2
	65	M	480	620		4_2
	66	M	465	615		4_2
	67	M	435	560		RS
	68	M	465	595		4_2
	69	M	470	620		4_2
	70	M	530	695		5_2
	71	M	485	625		4_2
	72	M	515	655		4_2
	73	M	480	630		RS
	74	M	525	670		5_2
	75	M	485	625		4_2

Table IX

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
July 11	M	505	620	540	688	515	650	544	678
	F			545	660	475	570	540	655
July 12	M	470	565	560	710			553	700
	F			530	660				
July 13	M			540	682	515	625	560	688
	F			485	605			540	654
July 14	M	485	603	590	718			600	745
	F	478	588	520	633	475	580	540	655
July 15	M	490	590	555	685			557	670
	F	450	545	547	652			543	645
July 16	M	479	573	570	702	485	592		
	F	475	580	515	625			580	690
July 17	M	475	575	527	645	475	590	563	688
	F	450	550	540	650	450	550	533	640
July 18	M	475	568	555	677	490	545		
	F			510	610				
July 19	M	450	545	548	670	510	610	527	661
	F	483	578	523	630	485	585	500	620
July 20	M	465	573	537	653	483	590	555	660
	F					455	550	525	640
July 21	M	483	588	554	689	458	565	551	674
	F	450	580	533	648	455	563	520	655
July 22	M	479	565	560	690	480	588	548	681
	F			530	660	458	565	517	632
July 23	M	474	584	571	698	498	620	570	696
	F	473	570	535	660	495	590	555	665
July 24	M	450	560	530	660	496	598	548	683
	F	440	550	520	650	478	580		

Table IX

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
July 25	M	458	570	520	648	443	558	510	660
	F	438	560			468	565	513	635
July 26	M	484	602	541	664	475	585	549	690
	F			485	580	458	560	525	630
July 27	M	460	560	530	670	483	590	583	713
	F							495	610
July 28	M			565	700			610	745
	F			580	700				
July 29	M							568	700
	F	495	590			455	550		
July 30	M	482	592	553	678	483	580	569	695
	F			575	690				
July 31	M	458	543	575	695			568	685
	F	492	583			490	595		
Aug 1	M	475	583	573	685			590	722
	F	480	580	538	653	445	605		
Aug 2	M	488	583	588	705	483	585	602	723
	F	450	540			515	620	588	705
Aug 3	M	489	599	545	665	463	580	579	711
	F					455	570	553	660
Aug 4	M			590	717	480	590	565	688
	F	480	577					535	660
Aug 5	M	455	550	555	678			541	669
	F	500	600	560	650	475	585	553	653
Aug 6	M	500	630	553	683	485	588	595	728
	F	470	575	535	650	475	578		
Aug 7	M	545	643			455	554	584	711

Table IX

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
	F	495	600	520	635	505	610	561	677
Aug 8	M	438	545			479	577	580	707
	F	470	575			495	610	550	668
Aug 9	M	452	543	575	698	486	590	573	694
	F	467	562	595	605	485	588	543	660
Aug 10	M			510	620	486	586	566	682
	F			560	665			562	678
Aug 11	M	479	576	578	700	508	620	591	704
	F	510	605	548	648	498	601	538	647
Aug 12	M	478	592	555	690	511	619	594	720
	F	495	580			468	565	577	690
Aug 13	M			600	730	490	590	582	667
	F	475	560					563	702
Aug 14	M	510	630	580	698	525	633	580	710
	F							550	655
Aug 15	M	483	585	560	675	497	601	585	707
	F	490	590	575	675	495	596	562	673
Aug 16	M	465	563			486	589	580	703
	F					499	600		
Aug 17	M	460	565	568	677	505	611	571	712
	F	480	575	555	675			567	679
Aug 18	M	495	600	590	700	500	605	584	702
	F					490	585		
Aug 19	M	435	510			535	655	595	719
	F	485	570	515	613	503	598	560	660
Aug 20	M	473	575			508	613	572	693
	F	458	550			473	573	563	670

Table IX

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
Aug 21	M	440	525	575	690	505	615	597	714
	F			515	620	511	610	553	658
Aug 22	M					520		573	
	F			520		497		558	
Aug 23	M	480	590	560	685			578	704
	F	475	580	540	650	507	604	572	685
Aug 24	M			553	675	498	610	591	711
	F	485	585	600	710	515	610	562	678
Aug 25	M			580	705	505	615	578	695
	F			570	675	508	603	575	690
Aug 26	M	480	585					592	713
	F					513	603	575	688
Aug 27	M			550	665			590	705
	F	470	560	540	640	510	595	580	698
Aug 28	M	490	600			505	610	601	728
	F	475	570	500	605	502	598	587	705
Sept 1	M	428	524	565	675	540	640	577	697
	F			520	613	494	599	547	660
Sept 2	M								
	F	451	542	509	608	480	585		
Sept 3	M	405	490						
	F	435	535	528	630	480	583	553	673
Sept 4	M	438	538	575	695			603	738
	F			520	628	490	590		
Sept 5	M	448	543	563	690	400	490	605	730
	F	450	538						
Sept 6	M	365	445			525	635	583	715
	F	420	513	491	596	475	575		

Table IX

Average length information for sockeye salmon sampled at Meziadin Fishway by day, sex and age.

		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
Sept 7	M	430	518	565	685			590	710
	F			514	616			540	648
Average	M	467	556	559	684	491	597	575	700
	F	470	552	534	641	484	586	550	663

Note: H.P. indicates the hypural to post- orbital length in millimeters.

N/F indicates the nose fork length in millimeters.

Table X

Age composition information for sockeye salmon sampled from Meziadin Fishway by day and sex.

		4_2		5_2		5_3		6_3		TOTAL
Date	Sex	#	%	#	%	#	%	#	%	
July 11	M	1	12.5	2	25	1	12.5	4	50	8
	F			2	50	1	25	1	25	4
July 12	M	1	20	2	40			2	40	5
	F			1	100					1
July 13	M			2	25	1	12.5	5	62.5	8
	F			1	16.7			5	83.3	6
July 14	M	2	33.3	3	50			1	16.7	6
	F	2	28.6	2	28.6	1	14.2	2	28.6	7
July 15	M	1	20	1	20			3	60	5
	F	1	16.7	3	50			2	33.3	6
July 16	M	3	20	9	60	3	20			15
	F	1	25	2	50			1	25	4
July 17	M	4	23.5	6	35.3	1	5.9	6	35.3	17
	F	1	16.7	2	33.3	1	16.7	2	33.3	6
July 18	M	2	25	5	62.5	1	12.5			8
	F			1	100					1
July 19	M	4	33.3	2	16.7	1	8.3	5	41.7	12
	F	2	33.3	2	33.3	1	16.7	1	16.7	6
July 20	M	3	25	3	25	4	33.3	2	16.7	12
	F					1	50	1	50	2
July 21	M	4	23.5	7	41.2	2	11.8	4	23.5	17
	F	1	16.7	2	33.3	2	33.3	1	16.7	6
July 22	M	5	31.25	1	6.25	4	25	6	37.5	16
	F			1	16.7	2	33.3	3	50	6
July 23	M	5	31.25	5	31.25	2	12.5	4	25	16
	F	3	42.8	1	14.3	1	14.3	2	28.6	7
July 24	M	2	16.7	1	8.3	5	41.7	4	33.3	12
	F	1	25	1	25	2	50			4

Table X

Age composition information for sockeye salmon sampled from Meziadin Fishway by day and sex.

		4_2		5_2		5_3		6_3		TOTAL
Date	Sex	#	%	#	%	#	%	#	%	
July 25	M	3	27.3	4	36.3	3	27.3	1	9.1	11
	F	2	33.3			2	33.3	2	33.4	6
July 26	M	5	33.3	4	26.7	2	13.3	4	26.7	15
	F			1	25	2	50	1	25	4
July 27	M	1	11.1	1	11.1	2	22.2	5	55.6	9
	F							1	100	1
July 28	M			1	50			1	50	2
	F			1	100					1
July 29	M							2	100	2
	F	1	50			1	50			2
July 30	M	3	21.4	2	14.3	2	14.3	7	50	14
	F			1	100					1
July 31	M	2	28.6	1	14.3			4	57.1	7
	F	3	75			1	25			4
Aug 1	M	4	40	3	30			3	30	10
	F	3	50	2	33.3	1	16.7			6
Aug 2	M	3	30	2	20	2	20	3	30	10
	F	1	25			1	25	2	50	4
Aug 3	M	4	26.7	2	13.3	2	13.3	7	46.7	15
	F					1	33.3	2	66.7	3
Aug 4	M			3	21.4	3	21.4	8	57.2	14
	F	3	75					1	25	4
Aug 5	M	1	12.5	2	25			5	62.5	8
	F	1	16.7	1	16.7	2	33.3	2	33.3	6
Aug 6	M	1	12.5	3	37.5	2	25	2	25	8
	F	1	25	1	25	2	50			4
Aug 7	M	2	11.1			6	33.3	10	55.6	18

Table X

Age composition information for sockeye salmon sampled from Meziadin Fishway by day and sex.

		4_2		5_2		5_3		6_3		TOTAL
Date	Sex	#	%	#	%	#	%	#	%	
	F	3	27.3	1	9.1	2	18.2	5	45.4	11
Aug 8	M	2	15.4			5	38.5	6	46.1	13
	F	2	33.3			1	16.7	3	50	6
Aug 9	M	3	16.7	3	16.7	5	27.8	7	38.8	18
	F	3	27.3	1	9	4	36.4	3	27.3	11
Aug 10	M			1	7.2	5	35.7	8	57.1	14
	F			2	40			3	60	5
Aug 11	M	4	22.2	2	11.1	3	16.7	9	50	18
	F	2	13.3	4	26.7	6	40	3	20	15
Aug 12	M	4	21	1	5.3	6	31.6	8	42.1	19
	F	1	12.5			2	25	5	62.5	8
Aug 13	M			1	14.3	1	14.3	5	71.4	7
	F	1	25					3	75	4
Aug 14	M	1	12.5	2	25	3	37.5	2	25	8
	F							2	100	2
Aug 15	M	2	8.7	1	4.3	10	43.5	10	43.5	23
	F	1	6.2	1	6.2	9	56.3	5	31.3	16
Aug 16	M	2	8.7			7	30.4	14	60.9	23
	F					4	100			4
Aug 17	M	2	13.3	3	20	4	26.7	6	40	15
	F	1	12.5	1	12.5			6	75	8
Aug 18	M	1	12.5	1	12.5	1	12.5	5	62.5	8
	F					1	100			1
Aug 19	M	1	16.7			1	16.7	4	66.6	6
	F	1	9.1	4	36.4	5	45.4	1	9.1	11
Aug 20	M	2	14.3			3	21.4	9	64.3	14
	F	2	28.6			3	42.8	2	28.6	7

Table X

Age composition information for sockeye salmon sampled from Meziadin Fishway by day and sex.

		4_2		5_2		5_3		6_3		TOTAL
Date	Sex	#	%	#	%	#	%	#	%	
Aug 21	M	1	7.1	1	7.1	3	21.4	9	64.4	14
	F			1	14.3	4	57.1	2	28.6	7
Aug 22	M					1	11.1	8	88.9	9
	F			1	11.1	5	55.6	3	33.3	9
Aug 23	M	1	11.1	1	11.1			7	77.8	9
	F	1	6.7	1	6.7	6	40	7	46.6	15
Aug 24	M			2	22.2	3	33.3	4	44.5	9
	F	1	10	1	10	5	50	3	30	10
Aug 25	M			1	20	2	40	2	40	5
	F			1	12.5	6	75	1	12.5	8
Aug 26	M	2	40					3	60	5
	F					2	50	2	50	4
Aug 27	M			2	40			3	60	5
	F	1	14.3	1	14.3	2	28.6	3	42.8	7
Aug 28	M	1	11.1			1	11.1	7	77.8	9
	F	1	11.1	2	22.3	3	33.3	3	33.3	9
Sept 1	M	4	40	2	20	1	10	3	30	10
	F			4	28.6	4	28.6	6	42.8	14
Sept 2	M									
	F	5	45.5	5	45.5	1	9			11
Sept 3	M	1	100							1
	F	2	22.2	3	33.4	2	22.2	2	22.2	9
Sept 4	M	2	33.3	2	33.3			2	33.4	6
	F			8	88.9	1	11.1			9
Sept 5	M	2	33.3	2	33.3	1	16.7	1	16.7	6
	F	4	100							4
Sept 6	M	1	25			1	25	2	50	4
	F	2	25	5	62.5	1	12.5			8

Table X

Age composition information for sockeye salmon sampled from Meziadin Fishway by day and sex.

		4_2		5_2		5_3		6_3		TOTAL
Date	Sex	#	%	#	%	#	%	#	%	
Sept 7	M	3	60	1	20			1	20	5
	F			4	57.1			3	42.9	7
Total	M	108	18.5	106	18.2	116	19.9	253	43.4	583
	F	61	17.3	79	22.4	104	29.6	108	30.7	352

Note : Any discrepency in the percentages are due to rounding error. Where the summary total indicates less than one thousand fish sampled, this is due to scale sample inadequacies resulting in the loss of information.

Table XI

Average length by age and sex of sockeye salmon sampled from Damdochax, Bowser and Fred-Wright lake's in 1989.

		4_2		5_2		5_3		6_3	
Date	Sex	H.P.	N/F	H.P.	N/F	H.P.	N/F	H.P.	N/F
		Damdochax Lake							
Sept 7	M	486	617	562	702	525	655		
	F	470	572	527	638	475	580	505	618
		Bowser Lake							
Sept 8	M	461	584	538	681	469	599	543	689
	F	458	566	528	655	461	569	518	644
		Fred-Wright Lake (Kwinagese)							
Aug 30	M	471	608	528	681				
	F	454	563	530	655	440	535		
		Fred-Wright Lake (Bonnie)							
Aug 29	M	459	591			485	625		
	F	465	580	540	673				

Note: H.P. indicates the hypural to post- orbital length in millimeters.

N/F indicates the nose fork length in millimeters.

Table XII

Age composition information for sockeye salmon from Bowser, Damdochax and Fred-Wright lake's in 1989.

		4_2		5_2		5_3		6_3		TOTAL
Date	Sex	#	%	#	%	#	%	#	%	
				Damdochax Lake						
Sept 7	M	17	42.5	20	50	3	7.5			40
	F	22	39.3	31	55.4	1	1.8	2	3.5	56
				Bowser Lake						
Sept 8	M	12	10.2	36	30.5	25	21.2	45	38.1	118
	F	7	9.1	27	35.1	17	22.1	26	33.7	77
				Fred-Wright Lake (Kwinagese)						
Aug 30	M	29	82.9	6	17.1					35
	F	32	94.2	1	2.9	1	2.9			34
				Fred-Wright Lake (Bonnie)						
Aug 29	M	48	98			1	2			49
	F	22	91.7	2	8.3					24

Note : Any discrepency in the percentages are due to rounding error. Where the summary total indicates less than one thousand fish sampled, this is due to scale sample inadequacies resulting in the loss of information.

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